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(54) Title: POLYMORPHISMS AND NEW GENES IN THE REGION OF THE HUMAN HEMOCHROMATOSIS GENE		
(57) Abstract <p>Polymorphic sites in the region surrounding the HFE gene are provided. These polymorphisms are useful as surrogate markers in diagnostic assays for hemochromatosis. Additionally, a fine structure map of the 1 megabase region surrounding the HFE gene is provided, along with 235 kb of DNA sequence and 8 loci corresponding to candidate genes within the 1 megabase region, and in the purification of related proteins.</p>		

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Polymorphisms and New Genes in the Region of the Human Hemochromatosis Gene

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BACKGROUND OF THE INVENTION

Hereditary hemochromatosis (HH) is an inherited disorder of iron metabolism wherein the body accumulates excess iron. In symptomatic individuals, this excess iron leads to deleterious effects by being deposited in a variety of organs leading to their failure, and resulting in cirrhosis, diabetes, sterility, and other serious illnesses. The gene which is defective in this disease was disclosed in copending U.S.S.N. 08/652,265.

10

Fine structure mapping of the region to which the gene responsible for HH, HFE (denoted HH or HFE in some publications), was mapped makes possible the identification of candidate sequences comprising the HFE gene, along with structural elements for regulation and expression and neighboring genes.

15

A variety of techniques is available for fine structure mapping, including direct cDNA selection, exon-trapping, and genomic sample sequencing. The direct selection approach (Lovett *et al.* Proc. Natl. Acad. Sci. U.S.A. 88:9628-9623 (1991)) involves the hybridization of cDNA fragments to genomic DNA. This technique is extremely sensitive and capable of isolating portions of rare transcripts. Exon-trapping (Church *et al.* Nature Genetics 6:98-105 (1994)) recovers spliced introns from *in vivo* expressed genomic DNA clones and produces candidate exons without requiring any prior knowledge of the target's gene expression. High-throughput genomic DNA sequencing with comparison of the sequence data to databases of expressed sequences has also been used, such as in the positional cloning of the Werner syndrome gene (Yu *et al.* Science 277:258-262 (1996)) and in cloning by homology of the second Alzheimer's disease gene on chromosome 1 (Levy-Lahad *et al.* Science 269:973-977 (1995)).

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HH is typically inherited as a recessive trait; in the current state of knowledge, homozygotes carrying two defective copies of the gene are most frequently affected by the disease. In addition, heterozygotes for the HFE gene are more susceptible to sporadic porphyria cutanea tarda and potentially other disorders (Roberts *et al.*, Lancet 349:321-323 (1997)). It is estimated that approximately 10-15% of Caucasians carry one copy of the HFE gene mutation and that there are about one million homozygotes in the United States. HH, thus, represents one of the most common genetic disease mutations in Caucasian individuals. Although ultimately HH produces debilitating symptoms, the majority of homozygotes and heterozygotes have not been diagnosed.

30

The need for such diagnostics is documented, for example, in Barton, J.C. *et al.* Nature Medicine 2:394-395 (1996); Finch, C.A. West J Med 153:323-325 (1990); McCusick, V. Mendelian Inheritance in Man pp. 1882-1887, 11th ed., (Johns Hopkins University Press, Baltimore (1994)); Report of a Joint World Health Organization/Hemochromatosis Foundation/French Hemochromatosis Association Meeting on the Prevention and Control of Hemochromatosis (1993); Edwards, C.Q. *et al.* New Engl J Med 328:1616-1620 (1993); Bacon, B.R. New Engl J Med 326:126-

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127 (1992); Balan, V. et al. Gastroenterology 107:453-459 (1994); Phatak, P.D. et al. Arch Int Med 154:769-776 (1994).

A single mutation in the HFE gene, designated 24d1 in copending U.S.S.N. 08/630,912, gave rise to the majority of disease-causing chromosomes present in the population today.

5 This is referred to herein as the "common" or "ancestral" or "common ancestral" mutation. These terms are used interchangeably. It appears that about 80% to 90% of all HH patients carry at least one copy of the common ancestral mutation which is closely linked to specific alleles of certain genetic markers close to this ancestral HFE gene defect. These markers are, as a first approximation, in the allelic form in which they were present at the time the ancestral HFE mutation occurred. See, for
10 *example*, Simon, M. et al. Am J Hum Genet 41:89-105 (1987); Jazwinska, E.C. et al. Am J Hum Genet 53:242-257 (1993); Jazwinska, E.C. et al. Am J Hum Genet 56:428-433 (1995); Worwood, M. et al. Brit J Hematol 86:863-866 (1994); Summers, K.M. et al. Am J Hum Genet 45:41-48 (1989).

Several polymorphic markers in the HFE region have been described and shown to have alleles that are associated with HH disease. These markers include the published microsatellite
15 markers D6S258, D6S306 (Gyapay, G. et al. Nature Genetics 7:246-339 (1994)), D6S265 (Worwood, M. et al. Brit J Hematol 86:833-846 (1994)), D6S105 (Jazwinska, E.C. et al. Am J Hum Genet 53:242-257 (1993); Jazwinska, E.C. et al. Am J Hum Genet 56:428-433 (1995)), D6S1001 (Stone, C. et al. Hum Molec Genet 3:2043-2046 (1994)), D6S1260 (Raha-Chowdhury et al. Hum Molec Genet 4:1869-1874 (1995)) as well as additional microsatellite and single-nucleotide-polymorphism markers
20 disclosed in co-pending PCT application WO 96/06583, the disclosure of which is hereby incorporated by reference in its entirety. Additionally, copending U.S.S.N. 08/630,912 disclosed additional markers 24d2 and 24d7.

The symptoms of HH are often similar to those of other conditions, and the severe effects of the disease often do not appear immediately. Accordingly, it would be desirable to provide a
25 method to identify persons who may be destined to become symptomatic in order to intervene in time to prevent excessive tissue damage associated with iron overload. One reason for the lack of early diagnosis is the inadequacy of presently available diagnostic methods to ascertain which individuals are at risk, especially while such individuals are presymptomatic.

Although blood iron parameters can be used as a screening tool, a confirmed
30 diagnosis often employs liver biopsy which is undesirably invasive, costly, and carries a risk of mortality. Thus, there is a clear need for the development of an inexpensive and noninvasive diagnostic test for detection of homozygotes and heterozygotes in order to facilitate diagnosis in symptomatic individuals, provide presymptomatic detection to guide intervention in order to prevent organ damage, and for identification of heterozygote carriers.

35 Furthermore, a need exists for both methods for fine structure mapping and a fine structure map of the region of the chromosome to which the HH locus maps. This and other needs are addressed by the present invention.

SUMMARY OF THE INVENTION

One aspect of the invention is an oligonucleotide comprising at least 8 to about 100 consecutive bases from the sequence of Figure 9, or the complement of the sequence, wherein the at least 8 to about 100 consecutive bases includes at least one polymorphic site of Table 1.

Another aspect of the invention is an oligonucleotide pair selected from the sequence of Figure 9 or its complement for amplification of a polymorphic site of Table 1.

Another aspect of the invention is an isolated nucleic acid molecule comprising about 100 consecutive bases to about 235 kb substantially identical to the sequence of Figure 9, wherein the DNA molecule comprises at least one polymorphic site of Table 1.

Another aspect of the invention is a method to determine the presence or absence of the common hereditary hemochromatosis (HFE) gene mutation in an individual comprising:

providing DNA or RNA from the individual; and

assessing the DNA or RNA for the presence or absence of a haplotype of Table 1,

wherein, as a result, the absence of a haplotype of Table 1 indicates the likely absence of the HFE gene mutation in the genome of the individual and the presence of the haplotype indicates the likely presence of the HFE gene mutation in the genome of the individual.

Another aspect of the invention is a method to determine the presence or absence of the common hereditary hemochromatosis (HFE) gene mutation in an individual comprising:

providing DNA or RNA from the individual; and

assessing the DNA or RNA for the presence or absence of a genotype defined by a polymorphic allele of Table 1,

wherein, as a result, the absence of a genotype defined by a polymorphic allele of Table 1 indicates the likely absence of the HFE gene mutation in the genome of the individual and the presence of the genotype indicates the likely presence of the HFE gene mutation in the genome of the individual.

Another aspect of the invention is a culture of lymphoblastoid cells having the designation ATCC CRL-12371.

One aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to BTF1.

A further aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to BTF2.

A further aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to BTF3.

A further aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to BTF4.

A further aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to BTF5.

A further aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to NPT3.

A further aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to NPT4.

A further aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to RoRet.

5 Additional aspects of the invention include nucleic acid sequences that are cDNAs, polypeptides encoded by the nucleic acids of the invention and antibodies specifically immunoreactive thereto, vectors comprising the nucleic acid sequences of the invention, and host cells stably transfected with the nucleic acids of the invention.

10 A further aspect of the invention is an isolated nucleic acid sequence comprising at least 18 contiguous nucleotides substantially identical to at least 18 contiguous nucleotides of BTF1.

A further aspect of the invention is an isolated nucleic acid sequence comprising at least 18 contiguous nucleotides substantially identical to at least 18 contiguous nucleotides of BTF2.

A further aspect of the invention is an isolated nucleic acid sequence comprising at least 18 contiguous nucleotides substantially identical to at least 18 contiguous nucleotides of BTF3.

15 A further aspect of the invention is an isolated nucleic acid sequence comprising at least 18 contiguous nucleotides substantially identical to at least 18 contiguous nucleotides of BTF4.

A further aspect of the invention is an isolated nucleic acid sequence comprising at least 18 contiguous nucleotides substantially identical to at least 18 contiguous nucleotides of BTF5.

20 A further aspect of the invention is an isolated nucleic acid sequence comprising at least 18 contiguous nucleotides substantially identical to at least 18 contiguous nucleotides of NPT3.

A further aspect of the invention is an isolated nucleic acid sequence comprising at least 18 contiguous nucleotides substantially identical to at least 18 contiguous nucleotides of NPT4.

A further aspect of the invention is an isolated nucleic acid sequence comprising at least 18 contiguous nucleotides substantially identical to at least 18 contiguous nucleotides of RoRet.

25 **BRIEF DESCRIPTION OF THE DRAWINGS**

Figure 1 depicts a combination genetic, physical and transcription map of the HFE gene region. The first line shows the relative positions of selected genetic markers that define the HFE region. The heavy bar below represents the YAC clone used in the direct selection experiment. The order and positions of the bacterial clones employed in the exon-trapping and sample sequencing is indicated under the YAC. The thin bar under the bacterial clones represents the approximate locations of a subset of the expressed sequence fragments mapped to the contig. The thicker bars show the location of the cDNAs cloned. Two regions are bracketed; the butyrophilin family of genes (BTF), and the region where complete genomic sequencing was carried out.

35 Figure 2 is a schematic of the 250 kb of genomic sequence including the HFE gene. Both the structure of the overall cDNA (top) and that corresponding to the coding regions (bottom), as well as the direction of transcription are shown. The positions of the histone genes, the zinc α -2 glycoprotein pseudogene, and the ESTs are also shown.

40 Figure 3 depicts an alignment of the predicted amino acid sequence of the BTF proteins. Sequences were aligned in a pair-wise fashion using CLUSTAL W (Thompson *et al.* Nucl. Acids Res. 22:4673-4680) to deduce the most parsimonious arrangement. The asterisks under the

alignment represent amino acids conserved in all 6 proteins; the "dots" represent conserved amino acids substitutions. Boxed are the regions within the proteins which correspond to three conserved motifs: 1) the B-G domain, 2) the transmembrane domain (TM), and 3) the B30-2 exon domain.

Figure 4, panel (A) depicts a Northern blot analysis of representative members of the two groups of BTF proteins, BTF1 and BTF5. BTF1 hybridized to all tissues on the blot as a major transcript at 2.9 kb and a minor one at 5.0 kb. BTF5 hybridized to several transcripts ranging between 4.0 and 3.1 kb and as a similar expression profile to BTF1. Autoradiography was for 24 hours. The β -actin hybridization demonstrated the variation in poly (A)+ RNA between the lanes. Autoradiography was for 1 hour. In panel (B), RT-PCR analysis demonstrated that the expression of both genes was widespread. Included in the (+) lane are cDNA 21 and 44 as positive controls; the (-) lane represents the no-DNA control. Amplification using primers for the RFP gene (Isomura *et al.* Nucleic Acid Res. 20:5305-5310 (1992)) controlled for the integrity of the cDNA. All first strand cDNAs were checked for contaminating genomic DNA amplification by carrying out an identical experiment excluding the reverse transcriptase. In all cases, no amplification was obtained (data not shown).

Figure 5(A) depicts an alignment of the predicted amino acid sequence of the RoRet gene to the 52 kD Ro/SSA auto-antigen protein. The asterisks under the alignment represent conserved amino acids; the "dots" represent conserved amino acids substitutions. The putative DNA binding cysteine-rich domain and the B30-2 exon domain are boxed. Figure 5(B) depicts an alignment of the predicted amino acid sequence of the two novel putative sodium phosphate transport proteins to that of the NPT1.

Figure 6, panel (A) depicts a Northern blot analysis of the RoRet gene. The RoRet cDNA hybridized to 4 different transcripts, ranging from 7.1 kb to 2.2 kb. Autoradiography was performed for 4 days. The re-hybridization of the blot with a β -actin probe showed the variation in poly (A)+ RNA between the lanes. Autoradiography was for 1 hour. Panel (B) depicts RT-PCR analysis of the RoRet gene. Included in the (+) lane was a cDNA 27 positive control. Weak amplification of the correct size was observed in the small intestine, kidney and liver. The other tissues were negative as was the no DNA control lane (-). The RFP primers demonstrated the integrity of the cDNA. Panel (C) depicts Northern blot analysis of NPT3 and NPT4. NPT3 was expressed at high abundance in the heart and muscle as a single 7.2 kb transcript. Lesser amounts were found in the other tissues. The expression pattern of NPT4 was more restricted, being found only in the liver and kidney as a smear of transcripts ranging from 2.6 to 1.7 kb. Panel (D) depicts RT-PCR analysis of the NPT3 and NPT4 genes. Included in the (+) lane were the respective cDNA22E and 22B positive controls. The NPT3 gene was expressed as the proper size PCR fragment in kidney, liver, spleen and testis. A smaller fragment was detected in all tissues with the exception of the liver. The no DNA control lane (-) was negative. NPT4 was expressed as the proper size fragment in the small intestine, kidney, liver and testis. Larger and smaller size fragments were found in all other tissues with the exception of the brain. For both genes these different size fragments may indicate alternative splice events. The no DNA control lane (-) was negative. The RFP primers demonstrated the integrity of the cDNA.

Figure 7 depicts the sequences of cDNA 21 (BTF1), cDNA 29 (BTF3), cDNA 23 (BTF4), cDNA 44 (BTF5), cDNA 32 (BTF2), cDNA 27 (RoRet), cDNA 22B (NPT3), cDNA22E (NPT4).

Figure 8 depicts the nucleotide sequence of approximately 235 kb in the HFE subregion from an unaffected individual.

Figure 9 depicts the nucleotide sequence of approximately 235 kb in the HFE subregion from an HH affected individual. Polymorphic sites in the HH affected individual determined by comparing a sequence of the corresponding region from an HH unaffected individual are listed and described in Table I.

DETAILED DESCRIPTION

A. Definitions

Abbreviations for the twenty naturally occurring amino acids follow conventional usage. In the polypeptide notation used herein, the left-hand direction is the amino terminal direction and the right-hand direction is the carboxyl-terminal direction, in accordance with standard usage and convention. Similarly, unless specified otherwise, the left hand end of single-stranded polynucleotide sequences is the 5' end; the left hand direction of double-stranded polynucleotide sequences is referred to as the 5' direction. The direction of 5' to 3' addition of nascent RNA transcripts is referred to as the transcription direction; sequence regions on the DNA strand having the same sequence as the RNA and which are 5' to the 5' end of the RNA transcript are referred to as "upstream sequences"; sequence regions on the DNA strand having the same sequence as the RNA and which are 3' to the 3' end of the RNA transcript are referred to as "downstream sequences".

The term "nucleic acids", as used herein, refers to either DNA or RNA. "Nucleic acid sequence" or "polynucleotide sequence" refers to a single- or double-stranded polymer of deoxyribonucleotide or ribonucleotide bases read from the 5' to the 3' end. It includes both self-replicating plasmids, infectious polymers of DNA or RNA and nonfunctional DNA or RNA. The complement of any nucleic acid sequence of the invention is understood to be included in the definition of that sequence.

"Nucleic acid probes" may be DNA or RNA fragments. DNA fragments can be prepared, for example, by digesting plasmid DNA, or by use of PCR, or synthesized by either the phosphoramidite method described by Beaucage and Carruthers, Tetrahedron Lett. 22:1859-1862 (1981), or by the triester method according to Matteucci, *et al.*, J. Am. Chem. Soc. 103:3185 (1981), both incorporated herein by reference. A double stranded fragment may then be obtained, if desired, by annealing the chemically synthesized single strands together under appropriate conditions or by synthesizing the complementary strand using DNA polymerase with an appropriate primer sequence. Where a specific sequence for a nucleic acid probe is given, it is understood that the complementary strand is also identified and included. The complementary strand will work equally well in situations where the target is a double-stranded nucleic acid.

The phrase "selectively hybridizing to" refers to a nucleic acid probe that hybridizes, duplexes or binds only to a particular target DNA or RNA sequence when the target sequences are present in a preparation of total cellular DNA or RNA. "Complementary" or "target" nucleic acid sequences refer to those nucleic acid sequences which selectively hybridize to a nucleic acid probe. Proper annealing conditions depend, for example, upon a probe's length, base composition, and the number of mismatches and their position on the probe, and must often be determined empirically. For

discussions of nucleic acid probe design and annealing conditions, see, for example, Sambrook *et al.*, Molecular Cloning: a Laboratory Manual (2nd ed.), Vols. 1-3, Cold Spring Harbor Laboratory, (1989) or Current Protocols in Molecular Biology, F. Ausubel *et al.*, ed. Greene Publishing and Wiley-Interscience, New York (1987).

5 The phrase "nucleic acid sequence encoding" refers to a nucleic acid which directs the expression of a specific protein or peptide. The nucleic acid sequences include both the DNA strand sequence that is transcribed into RNA and the RNA sequence that is translated into protein. The nucleic acid sequences include both the full length nucleic acid sequences as well as non-full length sequences derived from the full length protein. It being further understood that the sequence
10 includes the degenerate codons of the native sequence or sequences which may be introduced to provide codon preference in a specific host cell.

 The phrase "isolated" or "substantially pure" refers to nucleic acid preparations that lack at least one protein or nucleic acid normally associated with the nucleic acid in a host cell.

15 The phrase "expression cassette", refers to nucleotide sequences which are capable of affecting expression of a structural gene in hosts compatible with such sequences. Such cassettes include at least promoters and optionally, transcription termination signals. Additional factors necessary or helpful in effecting expression may also be used as described herein.

 The term "operably linked" as used herein refers to linkage of a promoter upstream from a DNA sequence such that the promoter mediates transcription of the DNA sequence.

20 The term "vector", refers to viral expression systems, autonomous self-replicating circular DNA (plasmids), and includes both expression and nonexpression plasmids. Where a recombinant microorganism or cell culture is described as hosting an "expression vector," this includes both extrachromosomal circular DNA and DNA that has been incorporated into the host chromosome(s). Where a vector is being maintained by a host cell, the vector may either be stably
25 replicated by the cells during mitosis as an autonomous structure, or is incorporated within the host's genome.

 The term "gene" as used herein is intended to refer to a nucleic acid sequence which encodes a polypeptide. This definition includes various sequence polymorphisms, mutations, and/or sequence variants wherein such alterations do not affect the function of the gene product. The term
30 "gene" is intended to include not only coding sequences but also regulatory regions such as promoters, enhancers, and termination regions. The term further includes all introns and other DNA sequences spliced from the mRNA transcript, along with variants resulting from alternative splice sites.

 The term "plasmid" refers to an autonomous circular DNA molecule capable of replication in a cell, and includes both the expression and nonexpression types. Where a recombinant
35 microorganism or cell culture is described as hosting an "expression plasmid", this includes both extrachromosomal circular DNA molecules and DNA that has been incorporated into the host chromosome(s). Where a plasmid is being maintained by a host cell, the plasmid is either being stably replicated by the cells during mitosis as an autonomous structure or is incorporated within the host's genome.

The phrase "recombinant protein" or "recombinantly produced protein" refers to a peptide or protein produced using non-native cells that do not have an endogenous copy of DNA able to express the protein. The cells produce the protein because they have been genetically altered by the introduction of the appropriate nucleic acid sequence. The recombinant protein will not be found in association with proteins and other subcellular components normally associated with the cells producing the protein. The terms "protein" and "polypeptide" are used interchangeably herein.

The following terms are used to describe the sequence relationships between two or more nucleic acids or polynucleotides: "reference sequence", "comparison window", "sequence identity", "percentage of sequence identity", and "substantial identity". A "reference sequence" is a defined sequence used as a basis for a sequence comparison; a reference sequence may be a subset of a larger sequence, for example, as a segment of a full-length cDNA or gene sequence given in a sequence listing, or may comprise a complete cDNA or gene sequence.

Optimal alignment of sequences for aligning a comparison window may, for example, be conducted by the local homology algorithm of Smith and Waterman Adv. Appl. Math. 2:482 (1981), by the homology alignment algorithm of Needleman and Wunsch J. Mol. Biol. 48:443 (1970), by the search for similarity method of Pearson and Lipman Proc. Natl. Acad. Sci. U.S.A. 85:2444 (1988), or by computerized implementations of these algorithms (for example, GAP, BESTFIT, FASTA, and TFASTA in the Wisconsin Genetics Software Package Release 7.0, Genetics Computer Group, 575 Science Dr., Madison, WI).

The terms "substantial identity" or "substantial sequence identity" as applied to nucleic acid sequences and as used herein and denote a characteristic of a polynucleotide sequence, wherein the polynucleotide comprises a sequence that has at least 85 percent sequence identity, preferably at least 90 to 95 percent sequence identity, and more preferably at least 99 percent sequence identity as compared to a reference sequence over a comparison window of at least 20 nucleotide positions, frequently over a window of at least 25-50 nucleotides, wherein the percentage of sequence identity is calculated by comparing the reference sequence to the polynucleotide sequence which may include deletions or additions which total 20 percent or less of the reference sequence over the window of comparison. The reference sequence may be a subset of a larger sequence.

As applied to polypeptides, the terms "substantial identity" or "substantial sequence identity" mean that two peptide sequences, when optimally aligned, such as by the programs GAP or BESTFIT using default gap weights, share at least 80 percent sequence identity, preferably at least 90 percent sequence identity, more preferably at least 95 percent sequence identity or more. "Percentage amino acid identity" or "percentage amino acid sequence identity" refers to a comparison of the amino acids of two polypeptides which, when optimally aligned, have approximately the designated percentage of the same amino acids. For example, "95% amino acid identity" refers to a comparison of the amino acids of two polypeptides which when optimally aligned have 95% amino acid identity. Preferably, residue positions which are not identical differ by conservative amino acid substitutions. For example, the substitution of amino acids having similar chemical properties such as charge or polarity are not likely to effect the properties of a protein. Examples include glutamine for asparagine or glutamic acid for aspartic acid.

The phrase "substantially purified" or "isolated" when referring to a peptide or protein, means a chemical composition which is essentially free of other cellular components. It is preferably in a homogeneous state although it can be in either a dry or aqueous solution. Purity and homogeneity are typically determined using analytical chemistry techniques such as polyacrylamide gel electrophoresis or high performance liquid chromatography. A protein which is the predominant species present in a preparation is substantially purified. Generally, a substantially purified or isolated protein will comprise more than 80% of all macromolecular species present in the preparation. Preferably, the protein is purified to represent greater than 90% of all macromolecular species present. More preferably the protein is purified to greater than 95%, and most preferably the protein is purified to essential homogeneity, wherein other macromolecular species are not detected by conventional techniques.

The phrase "specifically binds to an antibody" or "specifically immunoreactive with", when referring to a protein or peptide, refers to a binding reaction which is determinative of the presence of the protein in the presence of a heterogeneous population of proteins and other biologics. Thus, under designated immunoassay conditions, the specified antibodies bind to a particular protein and do not bind in a significant amount to other proteins present in the sample. Specific binding to an antibody under such conditions may require an antibody that is selected for its specificity for a particular protein. A variety of immunoassay formats may be used to select antibodies specifically immunoreactive with a particular protein. For example, solid-phase ELISA immunoassays are routinely used to select monoclonal antibodies specifically immunoreactive with a protein. See Harlow and Lane (1988) Antibodies, a Laboratory Manual, Cold Spring Harbor Publications, New York, for a description of immunoassay formats and conditions that can be used to determine specific immunoreactivity.

As used herein, "EST" or "Expressed Sequence Tag" refers to a partial DNA or cDNA sequence of about 150 to 500, more preferably about 300, sequential nucleotides of a longer sequence obtained from a genomic or cDNA library prepared from a selected cell, cell type, tissue or tissue type, or organisms which longer sequence corresponds to an mRNA or a gene found in that library. An EST is generally DNA. One or more libraries made from a single tissue type typically provide at least 3000 different (i.e. unique) EST's and potentially the full complement of all possible EST's representing all possible cDNAs, e.g., 50,000 - 100,000 in an animal such as a human. (See, for example, Adams *et al.* Science 252:1651-1656 (1991)).

"Stringent" as used herein refers to hybridization and wash conditions of 50% formamide at 42°C. Other stringent hybridization conditions may also be selected. Generally, stringent conditions are selected to be about 5° C lower than the thermal melting point (T_m) for the specific sequence at a defined ionic strength and pH. The T_m is the temperature (under defined ionic strength and pH) at which 50% of the target sequence hybridizes to a perfectly matched probe. Typically, stringent conditions will be those in which the salt concentration is at least about 0.02 molar at pH 7 and the temperature is at least about 60°C. As other factors may significantly affect the stringency of hybridization, including, among others, base composition and size of the complementary strands, the presence of organic solvents and the extent of base mismatching, the combination of parameters is more important than the absolute measure of any one.

B. Transcript Map and New Genes near HH

The instant invention provides a fine structure map of the 1 megabase region surrounding the HFE gene. As part of that map the instant invention provides approximately 250 kb of DNA sequence of which about 235 kb are provided in Figure 8 and eight loci of particular interest corresponding to candidate genes within the 1 megabase region. These loci are useful as genetic and physical markers for further mapping studies. Additionally, the eight cDNA sequences corresponding to those loci are useful, for example, for the isolation of other genes in putative gene families, the identification of homologs from other species, and as probes for diagnostic assays. In particular, isolated nucleic acid sequences of at least 18 nucleotides substantially identical to contiguous nucleotides of a cDNA of the invention are useful as PCR primers. Typically, the PCR primer will be used as part of a pair of primers in a PCR reaction. Isolated nucleic acid sequences preferably comprising about 18-100 nucleotides, more preferably at least 18 nucleotides, substantially identical to contiguous nucleotides in a cDNA of the invention are useful in the design of PCR primers and probes for hybridization assays. Additionally, the proteins encoded by those cDNAs are useful in the generation of antibodies for analysis of gene expression and in diagnostic assays, and in the purification of related proteins.

Thus, in one embodiment of the invention, a 235 kb sequence is provided for the HFE subregion within the 1 megabase region mapped. This sequence can serve as a reference in genetic or physical analysis of deletions, substitutions, and insertions in that region. Additionally, the sequence information provides a resource for the further identification of new genes in that region. Thus, nucleic acid sequences substantially identical to the 235 kb sequence are also included in the scope of this invention.

In a further embodiment of the invention, a family of five genes, BTF1-5, is provided which are related by sequence homology to the milk protein butyrophilin (BT) (Figures 1, 3, and 7). The predicted amino acid sequences of the proteins encoded by these genes are provided in Figure 3. These cDNAs are useful for the identification of further members of the BT family and to study regulation of expression of this family of genes. The proteins encoded by these cDNAs can be useful in the identification and isolation of ligands for the BT protein, and in the generation of agonists or antagonists of BT function. Nucleic acid sequences substantially identical to BTF1-5 and the proteins encoded by them are also included in the scope of this invention, including allelic forms.

In a further embodiment of the invention, a novel gene RoRet is provided, which is related by sequence homology to the 52 kD Ro/SSA Lupus and Sjogren's syndrome autoantigen. This sequence is especially useful in the identification of other genes that may be involved in Lupus or Sjogren's syndrome. The protein encoded by this cDNA can be useful in the identification and isolation of ligands for the autoantigen, and in the generation of agonists or antagonists of the antigen. Nucleic acid sequences substantially identical to RoRet and the proteins encoded by them are also included in the scope of this invention.

In a further embodiment of the invention, two genes, NPT3 and NPT4, with structural homology to a type 1 sodium transport gene are provided. These cDNAs and the proteins expressed by them are useful in determining the etiology of hypophosphatemia, along with being useful as probes

in the identification and isolation of further members of the gene family. Nucleic acid sequences substantially identically to the NPT1-like sequences and the proteins encoded by them are also included in the scope of this invention.

C. Polymorphic Markers

The invention provides 397 new polymorphic sites in the region of the HFE gene. These polymorphisms are listed in Table 1. As described below, these polymorphisms were identified by comparison of the DNA sequence of an affected individual homozygous for the common ancestral HH mutation with that of an unaffected individual disclosed in copending U.S. 08/724,394.

Table 1. Polymorphic Sites in the HH Region

Base Location	Difference	Base Location	Difference
35-36	AC DEL	19755	G-A
841	T-C	19949	C-T
2662-2663	TT DEL	20085	C-T
3767	T-C	20366-20367	A INS
3829	C-G	20463	C-A
4925-4928	TAAA DEL	20841	A-T
5691	C-T	21059	A-T
5839	T-C	21117	A-G
6011	G-A	21837	A-C
6047	C-G	22293	A-C
6231	G-A	22786	C-A
6643	A DEL	23009	G-A
6698	T-C	24143	T-A
7186	T-C	26175	G-C
7273	G-A	26667	C-A
7545-7558	TCACACACCGATTGG DEL	26994	T-C
7672	G DEL	27838	G-T
7933	T-C	27861	T DEL
8746	T-G	28132	G-A
9115	G-A	29100	G-A
9823	G-A	29454-29457	TTTT DEL
10027	G-A	29787	T-G
10214	C-T	29825	A-C
10828	A-G	30009	T-C
10918	C-G	30177	A-G
10955	A-G	30400	A-G
11524	C-A	31059	T-A
11674	A-G	31280	C-T
11955	T-C	31749	C-T
12173-12175	TTT DEL	32040	C-G
13304	G-A	32556-32559	TGTG DEL
13455	G-A	33017	T-G
14416-14417	A INS	33026	T DEL
14898	C-T	34434	C-T
15564	T-C	35179	A-C
15887	A-G	35695	G-A
15904-15919	CCAACTGATCTTTGA DEL	35702	G-A
16019	T DEL	35983	A-G
16211	A-T	37411	A-G
17461	A-G	38526	C-T

	Base Location	Difference	Base Location	Difference
	40431	C-A	72688	C-G
	42054-42055	TT DEL	75323-75324	T INS
	43783-43784	TTTT INS	75887	G-C
5	45120	C DEL	77519	T-C
	45567	A-C	77749	G-A
	46601	A-T	77908	T-C
	47255	C-G	78385	C-G
	47758	C-A	78592-78593	AG INS
	47994	G-C	80189	T-G
10	48440	G-A	80279	T DEL
	48650	T-G	80989-80990	A INS
	48680	A-G	81193	T-C
	50240	C-T	81273	A DEL
	50553	G-A	82166	G-A
15	50586	G-T	83847	T DEL
	51322	G-C	84161-84162	CA-GG
	51747	A-G	84533	A-G
	52474	C-G	84638	T-G
	52733	C-A	85526	T-G
20	52875	G-A	85705	G-T
	53631-53637	TTTTTT DEL	86984	T-C
	53707	G-A	87655	T-C
	54819	A-G	87713	A-C
	55913	T-C	87892	C-T
25	56225	A-C	88192	T DEL
	56510	T-C	88528	A-G
	56566	G-A	89645	A-T
	56618	A-T	89728	A-G
	57815	A-G	90088	T-C
30	58011	T DEL	91193-91194	2209bp INS
	58247-58248	T INS	91373	T-C
	58926	C-G	91433-91434	A INS
	59406	C-G	91747	G-A
	59422	G-C	93625	T DEL
35	60221-60222	A INS	95116-95117	T INS
	60656-60657	CA DEL	96315	G-A
	61162	G-A	97981	A-G
	61485	G-A	98351	T DEL
	61607	A DEL	99249	C-T
40	61653	T-C	100094-100095	T INS
	61794-61795	T INS	100647-100648	TTC INS
	62061	G-C	100951	C-T
	62362	T-G	101610	C-G
	62732	C-G	102589	C-T
45	63364	G-A	103076-103077	TATATATATATATA INS
	63430-63431	GT INS	103747	T-C
	63754	C-T	105638	A-C
	63785	A-C	107024	C-T
	63870-63871	A INS	107322	C-T
50	64788	A-G	107858	C-G
	64962	G-A	109019	A DEL
	65891	C-T	109579	T DEL
	66675	G-C	110021	C-A
	67186-67187	ATT INS	111251	C-A
55	67746-67747	TT INS	111425	G-A
	68259	T-C	112644	T-A
	68836	T-C	113001	G-C
	68976	C-G	113130	C-T
	72508	T-G	114026	G-A

	Base Location	Difference	Base Location	Difference
	114250	A DEL	176222	T-C
	115217	C-G	176524	A-T
	117995	G-A	176684	G-A
5	118874	A-G	176815	T-C
	119470	T-C	177049	T-C
	119646	G-T	177065	G-T
	120853	C-T	178285	T-C
	121582	G-A	178551-178552	CTTTTTTTTTTTT INS
10	123576	A-C	179114-179115	A INS
	125581	C-T	179260	C-G
	125970	G-T	179281	C-G
	126197	A-G	180023	G-C
	126672	A DEL	180430	T-C
	126672	G-C	180773	T-C
15	128220-128221	A INS	180824	T-C
	132569	C-T	181097	C-T
	133572	A-C	181183	A-T
	134064	T-G	182351	C-T
20	136999	G-A	183197	G-A
	137784	C-T	183623	A-T
	138903	G-A	183653	G-T
	139159-139160	A INS	183657	T-G
	140359	G-A	183795-183796	A INS
25	140898	C-T	184060	G-A
	141313	C DEL	184993	G-A
	141343	T-C	185918	A-G
	142148	T-C	186036	T-C
	142178	C-A	186506-186507	TAAC INS
30	142433-142434	ATAGA INS	186561-186568	TATTTATT DEL
	143783	C-T	186690	G DEL
	144090	C-T	186751	T-A
	144220-144221	A INS	187221	A-G
	144725	A-C	187260	A-G
35	145732-145733	AAAAAAAAAAAAA INS	187444-187447	CTCT DEL
	147016-147017	CG DEL	187831-187832	C INS
	147021	G-T	188638	G-A
	147536	T-G	188642	C-T
	148936	T-A	189246	T-C
40	149061	T-C	190340	A-C
	154341	A-T	190354	A-G
	154588	G-A	190762	A-G
	155464	G-A	191260	G-T
	158574	C-G	193018-193019	AGAT INS
45	160007	C-T	193147	T-G
	164348	A-T	193196-193197	C INS
	164499	C-G	193499	C-T
	166677-166678	AAAG INS	193738	C-G
	167389	G-A	193984-193985	ACACACAC INS
50	168506-168507	AGGATGGTCT INS	194064	C-G
	168515	T-C	194504	A DEL
	169413-169414	AA INS	194734	G-A
	170300-170301	TTGTTGTTGTTG INS	194890	A-C
	170491	G-A	195404	G-A
55	173428	T-C	195693	A-T
	173842	G-A	196205	G-A
	173948	T-G	197424	C-T
	175330	T-C	197513	C-T
	175836	T-C	197670	G-A
	176200	G-C	198055	C-A

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Base Location	Difference	Base Location	Difference
198401	C-T	215947	C-A
198692	A-G	216232	A-G
198780	T DEL	217478	G-A
199030	T-G	219052	T-C
199933	C-T	219082-219083	ATATATATATATATATAT INS
200027	G-A	219314	C-A
200439	T-A	219327	G-A
200452	A-G	219580	C-T
200472-200483	AATAATAATAAT DEL	219660	C-T
200559	A-T	219889	G-A
200745	A-G	220198	G-T
200919	T-A	220384	G-A
201816	C-T	220451-220452	CAAAAA INS
201861-201862	42bp INS	221363	G-A
202662	T-C	221645	G-A
202880	T-C	222119	T-C
204341	C-T	222358	A-G
204768	A-T	222367	A-C
205284	T-G	222886	A-G
207400	C-A	222959	T-C
208634	T-C	223270-223271	TT DEL
208718	T DEL	223283	T-C
208862	A-C	224964	T-C
209419-209420	TT DEL	225232	A-C
209802	G-A	225366-225367	TTTT INS
209844	C-G	225416	G-C
210299	A-G	225486	T-C
211142	G-A	226088	A-G
212072	G-A	228421	A-G
212146	T-C	230047	G-A
212379	G-A	230109	G-C
212637-212639	TCT DEL	230376	C-G
212696	T-C	230394	A-G
213042	T-A	231226	A-G
214192	A-G	231447	G-A
214529-214530	TTTTTTTTTT INS	231835	A-G
214549	T-C	232400-232402	AAA DEL
214795	C-T	232402-232403	G INS
214908	T-G	232515	T-C
214977	A-G	232703	G-T
215769	C-T	232750	A-G

* D6S2238 occurs at base 1. 24d1 occurs at base 41316. D6S2239 occurs at base 84841. D6S2241 occurs at base 235032

Table 2. Polymorphic Allele Frequencies

Location	Frequency of ancestral variant in random chromosomes	Frequency of unaffected variant in random chromosomes
232703	53%	47%
231835	53%	47%
230394	85%	15%
230376	25%	75%
230109	53%	47%
225486	45%	55%
225416	75%	25%
220198	43%	57%
219660	58%	42%

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	Location	Frequency of ancestral variant in random chromosomes	Frequency of unaffected variant in random chromosomes
	219560	53%	47%
	214977	65%	35%
	214908	50%	50%
5	214795	24%	76%
	214549	53%	47%
	214192	65%	35%
	210299	53%	47%
	208862	80%	20%
10	208634	48%	52%
	207400	25%	75%
	205284	50%	50%
	204341	53%	47%
	202880	58%	42%
	202662	98%	2%
15	200027	25%	75%
	199030	58%	42%
	198692	55%	45%
	198401	55%	45%
20	198055	55%	45%
	195693	60%	40%
	195404	25%	75%
	194890	55%	45%
	175330	53%	47%
25	173948	83%	17%
	173642	55%	45%
	173428	80%	20%
	168515	80%	20%
	160007	18%	82%
30	149061	58%	42%
	148936	82%	18%
	147536	100%	0%
	147021	46%	54%
	141343	55%	45%
35	140359	55%	45%
	138903	55%	45%
	132569	81%	19%
	125581	18%	82%
	121582	80%	20%
40	120853	18%	82%
	118874	85%	15%
	115217	50%	50%
	113130	40%	60%
	113001	48%	52%
45	107858	48%	52%
	103747	50%	50%
	96315	25%	75%
	91194	80%	20%
	90088	75%	25%
50	89728	50%	50%
	89645	50%	50%
	88528	63%	37%
	87892	75%	25%
	87713	60%	40%
55	87655	50%	50%
	86984	79%	21%
	85705	50%	50%
	85526	50%	50%

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Location	Frequency of ancestral variant in random chromosomes	Frequency of unaffected variant in random chromosomes
84638	50%	50%
84533	50%	50%
82166	78%	22%
81193	58%	42%
80189	50%	50%
78385	80%	20%
77908	88%	12%
68978	50%	50%
68259	51%	48%
66675	80%	20%
62732	50%	50%
62362	40%	60%
61653	48%	52%
61485	5%	95%
61162	60%	40%
53707	100%	0%
52875	50%	50%
52733	74%	26%
52474	47%	53%
50586	50%	50%
50553	50%	50%
50240	50%	50%
48680	53%	47%
48850	63%	37%
48440	50%	50%
47255	50%	50%
46801	53%	47%
45567	49%	51%
41316	5%	95%
40431	20%	80%
38528	23%	77%
37411	70%	30%
35983	5%	95%

These polymorphisms provide surrogate markers for use in diagnostic assays to detect the likely presence of the mutations 24d1 and/or 24d2, in preferably 24d1, in homozygotes or heterozygotes. Thus, for example, DNA or RNA from an individual is assessed for the presence or absence of a genotype defined by a polymorphic allele of Table 1, wherein, as a result, the absence of a genotype defined by a polymorphic allele of Table 1 indicates the likely absence of the HFE gene mutation in the genome of the individual and the presence of the genotype indicates the likely presence of the HFE gene mutation in the genome of the individual.

These markers may be used singly, in combination with each other, or with other polymorphic markers (such as those disclosed in co-pending PCT application WO 96/06583) in diagnostic assays for the likely presence of the HFE gene mutation in an individual. For example, any of the markers defined by the polymorphic sites of Table 1 can be used in diagnostic assays in combination with 24d1 or 24d2, or at least one of polymorphisms HHP-1, HHP-19, or HHP-29, or microsatellite repeat alleles 19D9:205; 18B4:235; 1A2:239; 1E4:271; 24E2:245; 2B8:206; 3321-1:98; 4073-1:182; 4440-1:180; 4440-2:139; 731-1:177; 5091-1:148; 3216-1:221; 4072-2:170; 950-1:142; 950-2:164; 950-3:165; 950-4:128; 950-6:151; 950-8:137; 63-1:151; 63-2:113; 63-3:169; 65-1:206; 65-

2:159; 68-1:167; 241-5:108; 241-29:113; 373-8:151; and 373-29:113, D6S258:199, D6S265:122, D6S105:124; D6S306:238; D6S464:206; and D6S1001:180.

Table 2 lists the frequency of about 100 of the alleles defined by the polymorphic sites of the invention in the general population. As is evident from the Table, certain of these alleles are present rarely in the general population. These polymorphisms are thus preferred as surrogate markers in diagnostic assays for the presence of a mutant HFE allele ("gene mutation") such as 24d1 or 24d2. Preferably, the frequency of the polymorphic allele used in the diagnostic assay in the general population is less than about 50%, more preferably less than about 25%, and most preferably less than about 5%. Thus, of the genotypes defined by the alleles listed in Table 2, polymorphisms occurring at base 35983 and base 61465 of Figure 1 are preferred.

It will be understood by those of skill in the art that because they were identified in an ancestral HH homozygote, the haplotypes defined by the polymorphic sites of Table 1 are predictive of the likely presence of the HFE gene mutation 24d1. Thus, for example, the likelihood of any affected individual having at least two or more of any of the polymorphic alleles defined by Table 1 is greater than that for any unaffected individual. Similarly, the likelihood of any affected individual having at least three or more of any of the polymorphic alleles defined by Table 1 is greater than that for any unaffected individual.

Thus, for example, in a diagnostic assay for the likely presence of the HFE gene mutation in the genome of the individual, DNA or RNA from the individual is assessed for the presence or absence of a haplotype of Table 1, wherein, as a result, the absence of a haplotype of Table 1 indicates the likely absence of the HFE gene mutation in the genome of the individual and the presence of the haplotype indicates the likely presence of the HFE gene mutation in the genome of the individual.

The markers defined by the polymorphic sites of Table 1 are additionally useful as markers for genetic analysis of the inheritance of certain HFE alleles and other genes which occur within the chromosomal region corresponding to the sequence of Figure 9 which include, for example, those disclosed in copending U.S.S.N. 08/724,394.

As the entire nucleotide sequence of the region is provided in Figure 9, it will be evident to those of ordinary skill in the art which sequences to use as primers or probes for detecting each polymorphism of interest. Thus, in some embodiments of the invention, the nucleotide sequences of the invention include at least one oligonucleotide pair selected from the sequence of Figure 9 or its complement for amplification of a polymorphic site of Table 1. Furthermore, in some embodiments of the invention a preferred hybridization probe is an oligonucleotide comprising at least 8 to about 100 consecutive bases from the sequence of Figure 9, or the complement of the sequence, wherein the at least 8 to about 100 consecutive bases includes at least one polymorphic site of Table 1. In some embodiments the polymorphic site is at base 35983 or base 61465.

It will also be appreciated that the nucleic acid sequences of the invention include isolated nucleic acid molecules comprising about 100 consecutive bases to about 235 kb substantially identical to the sequence of Figure 9, wherein the DNA molecule comprises at least one polymorphic

site of Table 1. Such isolated DNA sequences are useful as primers, probes, or as the component of a kit in diagnostic assays for detecting the likely presence of the HFE gene mutation in an individual.

D. Nucleic Acid Based Screening

Individuals carrying polymorphic alleles of the invention may be detected at either the DNA, the RNA, or the protein level using a variety of techniques that are well known in the art. The genomic DNA used for the diagnosis may be obtained from body cells, such as those present in peripheral blood, urine, saliva, bucca, surgical specimen, and autopsy specimens. The DNA may be used directly or may be amplified enzymatically *in vitro* through use of PCR (Saiki et al. Science 239:487-491 (1988)) or other *in vitro* amplification methods such as the ligase chain reaction (LCR) (Wu and Wallace Genomics 4:560-569 (1989)), strand displacement amplification (SDA) (Walker et al. Proc. Natl. Acad. Sci. U.S.A. 89:392-396 (1992)), self-sustained sequence replication (3SR) (Fahy et al. PCR Methods Appl. 1:25-33 (1992)), prior to mutation analysis. The methodology for preparing nucleic acids in a form that is suitable for mutation detection is well known in the art.

The detection of polymorphisms in specific DNA sequences, such as in the region of the HFE gene, can be accomplished by a variety of methods including, but not limited to, restriction-fragment-length-polymorphism detection based on allele-specific restriction-endonuclease cleavage (Kan and Dozy Lancet ii:910-912 (1978)), hybridization with allele-specific oligonucleotide probes (Wallace et al. Nucl Acids Res 6:3543-3557 (1978)), including immobilized oligonucleotides (Saiki et al. Proc. Natl. Acad. Sci. U.S.A. 86:6230-6234 (1989)) or oligonucleotide arrays (Maskos and Southern Nucl Acids Res 21:2269-2270 (1993)), allele-specific PCR (Newton et al. Nucl Acids Res 17:2503-2516 (1989)), mismatch-repair detection (MRD) (Faham and Cox Genome Res 5:474-482 (1995)), binding of MutS protein (Wagner et al. Nucl Acids Res 23:3944-3948 (1995)), denaturing-gradient gel electrophoresis (DGGE) (Fisher and Lerman et al. Proc. Natl. Acad. Sci. U.S.A. 80:1579-1583 (1983)), single-strand-conformation-polymorphism detection (Orita et al. Genomics 5:874-879 (1983)), RNAase cleavage at mismatched base-pairs (Myers et al. Science 230:1242 (1985)), chemical (Cotton et al. Proc. Natl. Acad. Sci. U.S.A. 85:4397-4401 (1988)) or enzymatic (Youil et al. Proc. Natl. Acad. Sci. U.S.A. 92:87-91 (1995)) cleavage of heteroduplex DNA, methods based on allele specific primer extension (Syvänen et al. Genomics 8:684-692 (1990)), genetic bit analysis (GBA) (Nikiforov et al. Nucl Acids Res 22:4167-4175 (1994)), the oligonucleotide-ligation assay (OLA) (Landegren et al. Science 241:1077 (1988)), the allele-specific ligation chain reaction (LCR) (Barrany Proc. Natl. Acad. Sci. U.S.A. 88:189-193 (1991)), gap-LCR (Abravaya et al. Nucl Acids Res 23:675-682 (1995)), radioactive and/or fluorescent DNA sequencing using standard procedures well known in the art, and peptide nucleic acid (PNA) assays (Orum et al., Nucl. Acids Res. 21:5332-5356 (1993); Thiede et al., Nucl. Acids Res. 24:983-984 (1996)).

In addition to the genotypes defined by the polymorphisms of the invention, as described in co-pending PCT application WO 96/35802 published November 14, 1996, genotypes characterized by the presence of the alleles 19D9:205; 18B4:235; 1A2:239; 1E4:271; 24E2:245; 2B8:206; 3321-1:98 (denoted 3321-1:197 therein); 4073-1:182; 4440-1:180; 4440-2:139; 731-1:177; 5091-1:148; 3216-1:221; 4072-2:170 (denoted 4072-2:148 therein); 950-1:142; 950-2:164; 950-3:165; 950-4:128; 950-6:151; 950-8:137; 63-1:151; 63-2:113; 63-3:169; 65-1:206; 65-2:159; 68-1:167; 241-

5:108; 241-29:113; 373-8:151; and 373-29:113, alleles D6S258:199, D6S265:122, D6S105:124, D6S306:238, D6S464:206; and D6S1001:180, and/or alleles associates with the HHP-1, the HHP-19 or HHP-29 single base-pair polymorphisms can also be used to assist in the identification of an individual whose genome contains 24d1 and/or 24d2. For example, the assessing step can be performed by a process which comprises subjecting the DNA or RNA to amplification using oligonucleotide primers flanking a polymorphism of Table 1, and oligonucleotides flanking 24d1 and/or 24d2, oligonucleotide primers flanking at least one of the base-pair polymorphisms HHP-1, HHP-19, and HHP-29, oligonucleotide primers flanking at least one of the microsatellite repeat alleles, or oligonucleotide primers for any combination of polymorphisms or microsatellite repeat alleles thereof.

Oligonucleotides useful in diagnostic assays are typically at least 8 consecutive nucleotides in length, and may range upwards of 18 nucleotides in length to greater than 100 or more consecutive nucleotides. Such oligonucleotides can be derived from either the genomic DNA of Figure 8 or 9, or cDNA sequences derived therefrom, or may be synthesized.

Additionally, the proteins encoded by such cDNAs are useful in the generation of antibodies for analysis of gene expression and in diagnostic assays, and in the purification of related proteins.

E. General Methods

The nucleic acid compositions of this invention, whether RNA, cDNA, genomic DNA, or a hybrid of the various combinations, may be isolated from natural sources, including cloned DNA, or may be synthesized *in vitro*. The nucleic acids claimed may be present in transformed or transfected whole cells, in a transformed or transfected cell lysate, or in a partially purified or substantially pure form.

Techniques for nucleic acid manipulation of the nucleic acid sequences of the invention such as subcloning nucleic acid sequences encoding polypeptides into expression vectors, labeling probes, DNA hybridization, and the like are described generally in Sambrook *et al.*, Molecular Cloning - a Laboratory Manual (2nd Ed.), Vol. 1-3, Cold Spring Harbor Laboratory, Cold Spring Harbor, New York, (1989), which is incorporated herein by reference. This manual is hereinafter referred to as "Sambrook *et al.*"

There are various methods of isolating the nucleic acid sequences of the invention. For example, DNA is isolated from a genomic or cDNA library using labeled oligonucleotide probes having sequences complementary to the sequences disclosed herein. Such probes can be used directly in hybridization assays. Alternatively probes can be designed for use in amplification techniques such as PCR.

To prepare a cDNA library, mRNA is isolated from tissue such as heart or pancreas, preferably a tissue wherein expression of the gene or gene family is likely to occur. cDNA is prepared from the mRNA and ligated into a recombinant vector. The vector is transfected into a recombinant host for propagation, screening and cloning. Methods for making and screening cDNA libraries are well known. See Gubler, U. and Hoffman, B.J. Gene 25:263-269 (1983) and Sambrook *et al.*

For a genomic library, for example, the DNA is extracted from tissue and either mechanically sheared or enzymatically digested to yield fragments of about 12-20 kb. The fragments

are then separated by gradient centrifugation from undesired sizes and are constructed in bacteriophage lambda vectors. These vectors and phage are packaged *in vitro*, as described in Sambrook, *et al.* Recombinant phage are analyzed by plaque hybridization as described in Benton and Davis, Science 196:180-182 (1977). Colony hybridization is carried out as generally described in M. Grunstein *et al.* Proc. Natl. Acad. Sci. USA 72:3961-3965 (1975).

DNA of interest is identified in either cDNA or genomic libraries by its ability to hybridize with nucleic acid probes, for example on Southern blots, and these DNA regions are isolated by standard methods familiar to those of skill in the art. See Sambrook, *et al.*

In PCR techniques, oligonucleotide primers complementary to the two 3' borders of the DNA region to be amplified are synthesized. The polymerase chain reaction is then carried out using the two primers. See PCR Protocols: a Guide to Methods and Applications (Innis, M, Gelfand, D., Sninsky, J. and White, T., eds.), Academic Press, San Diego (1990). Primers can be selected to amplify the entire regions encoding a full-length sequence of interest or to amplify smaller DNA segments as desired.

PCR can be used in a variety of protocols to isolate cDNA's encoding a sequence of interest. In these protocols, appropriate primers and probes for amplifying DNA encoding a sequence of interest are generated from analysis of the DNA sequences listed herein. Once such regions are PCR-amplified, they can be sequenced and oligonucleotide probes can be prepared from sequence obtained.

Oligonucleotides for use as primers or probes are chemically synthesized according to the solid phase phosphoramidite triester method first described by Beaucage, S.L. and Carruthers, M.H., Tetrahedron Lett., 22(20):1859-1862 (1981) using an automated synthesizer, as described in Needham-VanDevanter, D.R., *et al.*, Nucleic Acids Res. 12:6159-6168 (1984). Purification of oligonucleotides is by either native acrylamide gel electrophoresis or by anion-exchange HPLC as described in Pearson, J.D. and Regnier, F.E., J. Chrom., 255:137-149 (1983). The sequence of the synthetic oligonucleotide can be verified using the chemical degradation method of Maxam, A.M. and Gilbert, W., in Grossman, L. and Moldave, D., eds. Academic Press, New York, Methods in Enzymology 65:499-560 (1980).

1. Expression

Once DNA encoding a sequence of interest is isolated and cloned, one can express the encoded proteins in a variety of recombinantly engineered cells. It is expected that those of skill in the art are knowledgeable in the numerous expression systems available for expression of DNA encoding a sequence of interest. No attempt to describe in detail the various methods known for the expression of proteins in prokaryotes or eukaryotes is made here.

In brief summary, the expression of natural or synthetic nucleic acids encoding a sequence of interest will typically be achieved by operably linking the DNA or cDNA to a promoter (which is either constitutive or inducible), followed by incorporation into an expression vector. The vectors can be suitable for replication and integration in either prokaryotes or eukaryotes. Typical expression vectors contain transcription and translation terminators, initiation sequences, and promoters useful for regulation of the expression of polynucleotide sequence of interest. To obtain

high level expression of a cloned gene, it is desirable to construct expression plasmids which contain, at the minimum, a strong promoter to direct transcription, a ribosome binding site for translational initiation, and a transcription/translation terminator. The expression vectors may also comprise generic expression cassettes containing at least one independent terminator sequence, sequences permitting replication of the plasmid in both eukaryotes and prokaryotes, *i.e.*, shuttle vectors, and selection markers for both prokaryotic and eukaryotic systems. See Sambrook *et al.* Examples of expression of ATP-sensitive potassium channel proteins in both prokaryotic and eukaryotic systems are described below.

a. **Expression in Prokaryotes**

A variety of prokaryotic expression systems may be used to express the proteins of the invention. Examples include *E. coli*, *Bacillus*, *Streptomyces*, and the like.

It is preferred to construct expression plasmids which contain, at the minimum, a strong promoter to direct transcription, a ribosome binding site for translational initiation, and a transcription/translation terminator. Examples of regulatory regions suitable for this purpose in *E. coli* are the promoter and operator region of the *E. coli* tryptophan biosynthetic pathway as described by Yanofsky, C., *J. Bacteriol.* 158:1018-1024 (1984) and the leftward promoter of phage lambda (λ) as described by Herskowitz, I. and Hagen, D., *Ann. Rev. Genet.* 14:399-445 (1980). The inclusion of selection markers in DNA vectors transformed in *E. coli* is also useful. Examples of such markers include genes specifying resistance to ampicillin, tetracycline, or chloramphenicol. See Sambrook *et al.* for details concerning selection markers for use in *E. coli*.

To enhance proper folding of the expressed recombinant protein, during purification from *E. coli*, the expressed protein may first be denatured and then renatured. This can be accomplished by solubilizing the bacterially produced proteins in a chaotropic agent such as guanidine HCl and reducing all the cysteine residues with a reducing agent such as beta-mercaptoethanol. The protein is then renatured, either by slow dialysis or by gel filtration. See U.S. Patent No. 4,511,503.

Detection of the expressed antigen is achieved by methods known in the art as radioimmunoassay, or Western blotting techniques or immunoprecipitation. Purification from *E. coli* can be achieved following procedures such as those described in U.S. Patent No. 4,511,503.

b. **Expression in Eukaryotes**

A variety of eukaryotic expression systems such as yeast, insect cell lines, bird, fish, and mammalian cells, are known to those of skill in the art. As explained briefly below, a sequence of interest may be expressed in these eukaryotic systems.

Synthesis of heterologous proteins in yeast is well known. Methods in Yeast Genetics, Sherman, F., *et al.*, Cold Spring Harbor Laboratory, (1982) is a well recognized work describing the various methods available to produce the protein in yeast.

Suitable vectors usually have expression control sequences, such as promoters, including 3-phosphoglycerate kinase or other glycolytic enzymes, and an origin of replication, termination sequences and the like as desired. For instance, suitable vectors are described in the literature (Botstein, *et al.*, *Gene* 8:17-24 (1979); Broach, *et al.*, *Gene* 8:121-133 (1979)).

Two procedures are used in transforming yeast cells. In one case, yeast cells are first converted into protoplasts using zymolyase, lyticase or glucylase, followed by addition of DNA and polyethylene glycol (PEG). The PEG-treated protoplasts are then regenerated in a 3% agar medium under selective conditions. Details of this procedure are given in the papers by J.D. Beggs, Nature (London) 275:104-109 (1978); and Hinnen, a., *et al.*, Proc. Natl. Acad. Sci. U.S.A. 75:1929-1933 (1978). The second procedure does not involve removal of the cell wall. Instead the cells are treated with lithium chloride or acetate and PEG and put on selective plates (Ito, H., *et al.*, J. Bact. 153:163-168 (1983)).

The proteins of the invention, once expressed, can be isolated from yeast by lysing the cells and applying standard protein isolation techniques to the lysates. The monitoring of the purification process can be accomplished by using Western blot techniques or radioimmunoassay or other standard immunoassay techniques.

The sequences encoding the proteins of the invention can also be ligated to various expression vectors for use in transforming cell cultures of, for instance, mammalian, insect, bird or fish origin. Illustrative of cell cultures useful for the production of the polypeptides are mammalian cells. Mammalian cell systems often will be in the form of monolayers of cells although mammalian cell suspensions may also be used. A number of suitable host cell lines capable of expressing intact proteins have been developed in the art, and include the HEK293, BHK21, and CHO cell lines, and various human cells such as COS cell lines, HeLa cells, myeloma cell lines, Jurkat cells, etc. Expression vectors for these cells can include expression control sequences, such as an origin of replication, a promoter (e.g., the CMV promoter, a HSV *tk* promoter or *pgk* (phosphoglycerate kinase) promoter), an enhancer (Queen *et al.* Immunol. Rev. 89:49 (1986)), and necessary processing information sites, such as ribosome binding sites, RNA splice sites, polyadenylation sites (e.g., an SV40 large T Ag poly A addition site), and transcriptional terminator sequences. Other animal cells useful for production of ATP-sensitive potassium channel proteins are available, for instance, from the American Type Culture Collection Catalogue of Cell Lines and Hybridomas (7th edition, (1992)).

Appropriate vectors for expressing the proteins of the invention in insect cells are usually derived from the SF9 baculovirus. Suitable insect cell lines include mosquito larvae, silkworm, armyworm, moth and *Drosophila* cell lines such as a Schneider cell line (See Schneider J. Embryol. Exp. Morphol. 27:353-365 (1987)).

As indicated above, the vector, e.g., a plasmid, which is used to transform the host cell, preferably contains DNA sequences to initiate transcription and sequences to control the translation of the protein. These sequences are referred to as expression control sequences.

As with yeast, when higher animal host cells are employed, polyadenylation or transcription terminator sequences from known mammalian genes need to be incorporated into the vector. An example of a terminator sequence is the polyadenylation sequence from the bovine growth hormone gene. Sequences for accurate splicing of the transcript may also be included. An example of a splicing sequence is the VP1 intron from SV40 (Sprague, J. *et al.*, J. Virol. 45: 773-781 (1983)).

Additionally, gene sequences to control replication in the host cell may be incorporated into the vector such as those found in bovine papilloma virus type-vectors.

Saveria-Campo, M., 1985, "Bovine Papilloma virus DNA a Eukaryotic Cloning Vector" in DNA Cloning Vol. II a Practical Approach Ed. D.M. Glover, IRL Press, Arlington, Virginia pp. 213-238.

5 The host cells are competent or rendered competent for transformation by various means. There are several well-known methods of introducing DNA into animal cells. These include: calcium phosphate precipitation, fusion of the recipient cells with bacterial protoplasts containing the DNA, treatment of the recipient cells with liposomes containing the DNA, DEAE dextran, electroporation and micro-injection of the DNA directly into the cells.

10 The transformed cells are cultured by means well known in the art (Biochemical Methods in Cell Culture and Virology, Kuchler, R.J., Dowden, Hutchinson and Ross, Inc., (1977)). The expressed polypeptides are isolated from cells grown as suspensions or as monolayers. The latter are recovered by well known mechanical, chemical or enzymatic means.

2. Purification

15 The proteins produced by recombinant DNA technology may be purified by standard techniques well known to those of skill in the art. Recombinantly produced proteins can be directly expressed or expressed as a fusion protein. The protein is then purified by a combination of cell lysis (e.g., sonication) and affinity chromatography. For fusion products, subsequent digestion of the fusion protein with an appropriate proteolytic enzyme releases the desired polypeptide.

20 The polypeptides of this invention may be purified to substantial purity by standard techniques well known in the art, including selective precipitation with such substances as ammonium sulfate, column chromatography, immunopurification methods, and others. See, for instance, R. Scopes, Protein Purification: Principles and Practice, Springer-Verlag: New York (1982), incorporated herein by reference. For example, in an embodiment, antibodies may be raised to the proteins of the invention as described herein. Cell membranes are isolated from a cell line expressing the recombinant protein, the protein is extracted from the membranes and immunoprecipitated. The proteins may then be further purified by standard protein chemistry techniques as described above.

3. Antibodies

25 As mentioned above, antibodies can also be used for the screening of polypeptide products encoded by the polymorphic nucleic acids of the invention. In addition, antibodies are useful in a variety of other contexts in accordance with the present invention. Such antibodies can be utilized for the diagnosis of HH and, in certain applications, targeting of affected tissues.

30 Thus, in accordance with another aspect of the present invention a kit is provided that is suitable for use in screening and assaying for the presence of polypeptide products encoded by the polymorphic nucleic acids of the invention by an immunoassay through use of an antibody which specifically binds to polypeptide products encoded by the polymorphic nucleic acids of the invention in combination with a reagent for detecting the binding of the antibody to the gene product.

35 Once hybridoma cell lines are prepared, monoclonal antibodies can be made through conventional techniques of priming mice with pristane and interperitoneally injecting such mice with the hybrid cells to enable harvesting of the monoclonal antibodies from ascites fluid.

40 In connection with synthetic and semi-synthetic antibodies, such terms are intended to cover antibody fragments, isotype switched antibodies, humanized antibodies (mouse-human, human-

mouse, and the like), hybrids, antibodies having plural specificities, fully synthetic antibody-like molecules, and the like.

This invention also embraces diagnostic kits for detecting DNA or RNA comprising a polymorphism of Table 1 in tissue or blood samples which comprise nucleic acid probes as described herein and instructional material. The kit may also contain additional components such as labeled compounds, as described herein, for identification of duplexed nucleic acids.

The following examples are provided to illustrate the invention but not to limit its scope. Other variants of the invention will be readily apparent to one of ordinary skill in the art and are encompassed by the appended claims.

F. EXPERIMENTAL EXAMPLES

1. Megabase transcript map

In these studies direct selection, exon-trapping, and genomic sample sequencing were used to generate a transcript map of a 1 megabase region approximately 8.5 megabases telomeric to HLA-A in the vicinity of HFE. This region 6p21.3 was flanked by the genetic markers D6S2242 and D6S2241. The starting material for these experiments was a 1 megabase YAC labeled y899g1 and a bacterial clone contig of this region (Feder *et al.* Nature Genetics 13:399-408 (1996)). These techniques and other methods used in the study are outlined below.

a. Direct Selection (DS)

Poly A⁺ RNA from human fetal brain, liver and small intestine (Clontech, Palo Alto, CA) were converted into cDNA using random primers and a Superscript cDNA synthesis kit (Life Technologies, Gaithersburg, MD). The cDNA was digested with Mbo I and ligated to cDNA Mbo I linker-adaptors. Unligated linker-adaptor were removed by passage through cDNA spun columns (Pharmacia, Piscataway, NJ). The 5 ng of each of the ligated cDNAs were amplified using the cDNA Mbo I-S primer (5'-CCTGATGCTCGAGTGAATTC-3'). The amplified products were purified on S-400 spin columns (Pharmacia, Piscataway, NJ), ethanol precipitated and resuspended at 1mg/ml in TE. Gel-purified yac899g1 (Centre d'Etude du Polymorphisme Humain) was processed as described by Morgan *et al.* (Nucl. Acids Res. 20:5173-5179 (1992)). The cDNAs were mixed in equal molar amounts for a total of 3 mg, and blocked with a mixture of 4 mg Cot-1 DNA (Life Technologies, Gaithersburg, MD), and a cocktail of Sau 3A-digested ribosomal and five different histone DNAs. The blocked cDNAs were hybridized to biotinylated yac899g1 DNA and streptavidin capture was carried out as described by Morgan *et al.* (*ibid*). After the second round of selection, the eluted cDNAs were amplified using the cDNA Mbo I-S primer which included a (CUA)₄ repeat at the 5' end to facilitate cloning into a version of pSP72 (Promega, Madison, WI) constructed for use with uracil-DNA glycolase cloning (UDG, Life Technologies, Gaithersburg, MD). Recombinants were transformed in DH5 α , 1000 clones picked into a 96 well format, and clones prepped for DNA sequencing using AGTC boiling 96-well mini-prep system (Advance Genetic Technologies, Gaithersburg, MD).

Four hundred and sixty five clones were sequenced and the resulting data searched by BLAST (Altschul *et al.* J. Mol. Biol. 215:403-410 (1990)). Those clones representing repetitive, bacterial, yeast, mitochondrial and histone sequences were eliminated from future considerations. The remaining sequences were then searched for overlaps and assembled into 108 unique DS contigs.

The number of clones per DS contig varied between 1 to 22 with the length of each contig ranging from 250bp to 850 bp. Small sequence-tag-sites PCR assays were developed for each DS contig and two experiments were carried out concomitantly; mapping each DS contig back to the bacterial clone contig of the region and testing for the presence of each DS contig in cDNA libraries. Overall, 86 or 80% of the DS contigs mapped back to the region and were found to be in cDNA libraries. The number of 80% mapping to the region was probably an underestimate of the fidelity of the direct-selection since PCR assays which cross exon-intron boundaries would be expected to fail or give larger size products, thereby being scored negative.

b. Exon-Trapping

CsCl-purified genomic P1 (Genome Systems), BAC (Research Genetics) and PAC (Genome Systems) DNAs were digested with BamHI, Bgl II, Pst I Sac I and Xho I and 125 ng of each digest ligated into 500 ng pSPL3 (Church *et al.* Nature Genetics 6:98-105 (1994)) (Life Technologies, Gaithersburg, MD) digested with the appropriate restriction enzyme and phosphatased with calf intestinal alkaline phosphatase (USB, Cleveland, OH). One tenth of the ligation was used to transform XL1-Blue MRF' cells (Stratagene, La Jolla, CA) by electroporation. Nine tenths of the electroporation was used to inoculate 10 ml of LB + 100µg/ml of carbenicillin and after overnight growth, DNA was prepared using Qiagen Q-20 tips (Qiagen GmbH, Hilden Germany). The remaining one tenth was plated on LB +100 µg/ml carbenicillin plates to evaluate the efficiency on cloning and to test individual clones for the presence of single inserts. COS-7 cells were seed overnight at a density of 1.4×10^5 /well in 6 well dishes. One µg of DNA was transfected using 6ml of Lipofect-Ace. Cytoplasmic RNA was isolated 48 hr post-transfection. RT-PCR was carried out as described by Church *et al.* (*ibid*) using commercially available reagents Life Technologies, Gaithersburg, MD). The resulting CUA-tailed PCR fragments for each restriction digested bacterial clone were pooled and UDG cloned into pSP72-U (a derivative of pSP72). The DNA was transformed in DH5α and the cells plated onto nylon membranes. After overnight growth, duplicates were made and the DNA hybridized to ³²P end-labeled oligos designed to detect various background products associated with the pSPL3 vector. One set of filters was hybridized with the following gel-purified oligos in 6X SSC aqueous hybridization solution at 42° C:

vector-vector splicing	5'-CGACCCAGCAACCTGGAGAT-3'
cryptic donor-1021	5'-AGCTCGAGCGGCCGCTGCAG-3'
cryptic donor-1134	5'-AGACCCCAACCCACAAGAAG-3'

The filters were washed twice in 6X SSC, 10 mM sodium pyrophosphate (NaPPi) at 60°C, 30 mins.

After overnight autoradiography, non-hybridizing clones were picked and grown in 250 µl of LB + 100µg/ml of carbenicillin in 96 well mini-rack tubes. The samples were analyzed by PCR using the secondary PCR primers supplied in the kit (Life Technologies, Gaithersburg, MD) and those clones with inserts greater than 200 bp were selected for sequencing.

Ninety-six exon traps per bacterial clone were sequenced for a total of 768 reactions and the resulting data analyzed by BLAST. In addition, each potential exon was searched against a database of the 86 DS contigs to eliminate redundant sequences. PCR assays were developed for

each of the potential exons and they were tested for their presence in cDNA libraries. A total of 48 potential exons remained after these screening steps.

c. Sample Sequencing

A minimal set of bacterial clones chosen to cover y899g1 were prepped with the Qiagen Maxi-Prep system and purified on CsCl. Ten micrograms of DNA from each bacterial clone was sonicated in a Heat Systems Sonicator XL and end-repaired with Klenow (USB) and T4 polymerase (USB). The sheared fragments were size selected between three to four kilobases on a 0.7% agarose gel and then ligated to BstXI linkers (Invitrogen). The ligations were gel purified on a 0.7% agarose gel and cloned into a pSP72 derivative plasmid vector. The resulting plasmids were transformed into electrocompetent DH5 α cells and plated on LB-carbenicillin plates. A sufficient number of colonies was picked to achieve 15-fold clone coverage. The appropriate number of colonies was calculated by the following equation to generate a single-fold sequence coverage: Number of colonies = size of bacterial clone (in kb)/average sequence read length (0.4 kb). These colonies were prepped in the 96-well AGCT system and end-sequenced with oligo MAP1 using standard ABI Dye Terminator protocols. MAP1 was CGTTAGAACGCGGCTACAAT. The MAP1 sequences were screened locally with the BLAST algorithm against all available public databases. All sequence identities were catalogued and cross referenced to the DS and exon-trapped databases.

A total of 3794 end sequence reactions were run to achieve the theoretical 1X coverage. Eighty-five percent of these sequences contained non-bacterial non-vector inserts. An additional 1060 end sequence reactions were run from the opposite end of the cloning vector to augment the sequence coverage and to prepare for contigging across selected regions. BLAST searches to all publicly available databases identified 12 histone genes and 74 unique expressed sequence fragments (ESF). The ESF represent a collection of ESTs and other expressed sequence fragments that were selected due to their sequence identity over a significant portion of genomic DNA. The ESF were cross referenced against the DS and exon-trapped databases to eliminate redundancies. 58 unique ESF remained, representing 39 distinct clones. Included in these ESF are 5 sequences homologous to histone genes.

Table 3. EST's found by Sample Sequencing Large Insert Bacterial Clones

Clone name	Bacterial clone	Homology 5' blastx	Homology 3' blastx	Poly A + signal ¹	Genomic poly (A) _{cat}	cDNA Homology
EST03556	pc157c3	na ²	none ³	+	-	cDNA 28
ym33f11	pc157c3	ZNF	na	na	na	
EST04698	pc157c3	na	NSH ⁴	+	-	
EST04812	pc157c3	na	NSH	-	-	
yb89b08	pc157c3	NSH	na	na	na	
yd88g11	pc157c3	na	nsh	+	-	
yj49b01	pc157c3	NSH	na	na	na	
yv81d05	pc157c3	HG17 Human	NSH	+	-	cDNA 30
yg57h09	p196e20	BUTYBOVIN	NSH	+	-	cDNA 21
yq23d08	p196e20	BUTYBOVIN	NSH	+	-	cDNA 21

30	Clone name	Bacterial clone	Homology 5' blastx	Homology 3' blastx	Poly A+ signal ¹	Genomic poly (A) _{as}	cDNA Homology
	yo65f06	p196e20	NSH	na	na	na	cDNA 29
	yv88c09	p196e20	BUTYBOVIN	na	na	na	cDNA 29
	yd17d06	p196e20	NSH	na	na	na	cDNA 23
	ye25g03	p196e20	BUTYBOVIN	NSH	na	na	cDNA 44
5	ys04h08	pc45p21	NSH	NSH	+	-	cDNA 44
	yn01c05	p196e20	BUTYBOVIN	na	na	na	cDNA 32
	YG78F10	PC45P21	NSH	NSH	na	na	
	yh54f11	p196e20	none	NSH	-	-	
	ys05b08	pc157c3	NSH	Alu	-	+	
10	ybl2h11	b132a12	NSH	Histone H3.1	-	-	
	HSC2EE082	b132a12	na	NSH	+	-	
	HUM160h11b	b132a12	none	na	na	na	
	yg04f09	b132b12	Line element	Alu	-	+	
	yd37d11	b132a12	NSH	Alu	-	+	
15	ym29g03	b132a12	Histone H2A	NSH	+	-	cDNA 37
	yi77b02	b132a12	NSH	NSH	-	-	cDNA 37
	yh76b05	b132a12	NSH	Alu	-	-	
	yu98e02	b132a12	NSH	Alue	-	+	
	yd72h12	b132a12	Alu	NSH	+	+	
20	yd19d03	pc222k22	Histone H2B.1	NSH	+	-	
	ye98g01	b132a12	NSH	NSH	+	-	cDNA
	yi61f07	b132a12	NSH	NSH	-	+	
	ESTO5340	b3e17	na	Alu	-	+	
	yd35d05	pc222k22	NSH	NSH	-	+	
25	yc52a05	pc75L14	NSH	na	na	na	
	yd84a05	pc75L14	none	none	-	?	
	yr42a05	pc75L14	NaPi transport	none	+	-	cDNA 22B
	yd83h08	b20h20	NSH	none	+	-	
	ye38c09	b20h20	NSH	Alu	-	+	
30	yp74c05	b20h20	NaPi transport	Alu	? ⁶	na	

Bracketed area is the critical region

1	Signal of ATAAA or ATTAA	4	No Significant Homologies
2	Not available	5	3' splice that is not on contig
35	3 "NONE" reported by blast	6	Poor EST sequence

d. cDNA library screening

Superscript plasmid cDNA libraries, brain, liver and testis, were purchased from Life Technologies, Gaithersburg, MD. Colonies were plated on Hybond N filters (Amersham) using

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standard techniques. Insert probes from DS, exons and EST (I.M.A.G.E. clones; Genome Systems) were all isolated by PCR followed by purification in low-melting point agarose gels (Seakem). The DNAs were labeled in gel using the Prime-it II kit (Stratagene, La Jolla, CA). Small exon probes were labeled using their respective STS PCR primers instead of random primers. Up to 5 different probes were pooled in a hybridization. Filters were hybridized in duplicate using standard techniques. Putative positives were screened by PCR using the probe's STSs to identify clones. Inserts from positive clones were subcloned in pSP72 and sequenced.

e. Northern blots and RT-PCR analysis

Multiple tissue northern blots were purchased from Clontech and hybridized according to the manufacturer's instructions. RT-PCR was carried out on random primed first strand cDNA made from poly A+ RNA (Clontech) using AmpliTaq Gold (Perkin-Elmer). Control reactions were performed on RNA samples processed in the absence of reverse transcriptase to control for genomic DNA contamination.

f. Genomic Sequencing

The MAP1 sequences from the bacterial clones b132a2, 222K22, and 75L14 were assembled into contigs with the Staden package (available from Roger Staden, MRC). A minimal set of 3 kb clones was selected for sequencing with oligo labeled MAP2 that sits on the opposite end of the plasmid vector. The sequence of MAP2 was GCCGATTCATTAATGCAGGT. The MAP2 sequences were entered into the Staden database in conjunction with the MAP1 sequences to generate a tiling path of 3 kb clones across the region. These sequences were also screened with the BLAST algorithm and all novel sequence identities were noted. The plasmid 3 kb libraries were concurrently transformed in 96 well format into pox38UR (available from C. Martin, Lawrence Berkeley Laboratories). The transformants were subsequently mated with JGM (Strathman *et al.* P.N.A.S. 88:1247-1250 (1991) in 96 well format. All matings of the 3 kb clones within the tiling path were streaked on LB-carbenicillin-kanamycin plates and a random selection of 12 colonies per 3 kb clone was prepped in the AGCT system. The oligos -21: CTGTAAAACGACGGCCAGTC, and REV: GCAGGAAACAGCTATGACC were used to sequence off both ends of the transposon. Each 3 kb clone was assembled in conjunction with the end sequence information from all bacterial clones to generate complete sequence across the region. The genomic sequence was analyzed with the BLAST nucleotide and protein homology algorithms and the GRAIL 1.2 software to identify novel open reading frames (ORF) for gene finding.

g. Discussion

A compilation of 174 ESF led to the construction of an expressed sequence map of the region that served as the framework for the isolation of full-length cDNAs (Figure 1). (The map shows the subset of ESF that were actually mapped). Probes were developed for 82 best ESFs which appeared to be derived from the coding portions of cDNAs and the appropriate cDNA libraries were screened. This led to the isolation of 19 cDNAs, 17 of which represented novel sequences. 70 of the 174 ESF were included in the cDNAs isolated (40%). 36 probes failed to produce any clones even after repeated screening of several libraries. 51 ESF which were not accounted for in the cDNAs

cloned were not used in any screen. Therefore, it is possible that some additional genes within this 1 megabase region may have escaped detection.

A list of these cDNAs cloned and a comparison of the methods used to find them is presented in Table 4. Direct selection found 14 out of the 18 cDNAs contained within the boundaries of the YAC used in the experiment. Exon trapping found 15 out of the 19 cDNAs contained within the boundaries of the large insert bacterial clone config. Sample sequencing identified 11 genes that had corresponding ESTs in the public database.

Table 4. Comparison of gene finding methods

	Bacterial Clone	CDNA #	Homology	EST	DS	Exon Trap
	157c	28	zinc finger	EST03556	2	1
	157c3	30	nonhistone	yv81d05	1	none
				yvh07a10		
	157c3	46	ORF	yd88g11	1	
15	157c3	20	BT	none	none	3
	p18696	21	BTF1	yn01G5	4	5
				yg23d08		
				yg57h09		
				yu15h03		
	45p21	32	BTF2	yg78f10	7	3
				yn01c05		
	45p21	29	BTF3	ye25g03	2	9
				yo65f06		
	45p21	23	BTF4	yd17d06	4	6
20	45p21	44	BTF5	ys04h08	2	4
	3e17	41	genomic?	none	none	1
	132a2	43	genomic?	none	none	3
	132a2	36	genomic?	none	1	none
	132a2	37	histone 2A	ym29g03	3	none
				yh87a03		
25	75114	24	MHC class I	ye98g01	1	2
	132a2	39	genomic?	none	none	4
	132a2	27	Ro/SSA	none	3	4
	132a2	22B	NPT1-like	yr42a05	1	7
				yf09g06		
	20h20	22E	NPT1-like	none	2	5
30	20h20	NPT1	NPT1	yp74c05	N/A	3

As a final approach, a tiling path with overlapping end sequences from the sample sequence database was generated. Each 3 kb clone within the path was shotgun-sequenced using transposable elements as platforms for dual end sequencing. These individual clones were assembled in conjunction with the end sequences from all bacterial clones in the region. The resulting sequence (Figure 2) was analyzed systematically with BLAST homology searches and the Grail 1.2 program to identify novel open reading frames (ORF) and other gene-like structures. The BLAST homology searches did not produce any probes that had not already been identified by sample sequencing. Grail predicted exons for all the genes in the region, but was only able to assemble the histones into any representative form. A detailed analysis of BLAST homology searches to protein databases identified an enticing homology to a zinc alpha 2 glycoprotein approximately 25 kb upstream of HFE, but the lack of a substantial ORF and the presence of a stop codon suggested that it was a pseudogene. Figure 2 shows the positions, the exon and intron structures, and the relative orientation of transcription of novel genes within this region. Also shown are the positions and transcriptional orientations of the histone genes. A total of 12 histone genes were identified in this study.

In an effort to account for the ESTs that did not associate with the characterized genes in the 250 kb region, the genomic sequence around the putative 3' ends were examined for polyadenylation signals to determine whether certain EST sequences may have originated from genomic DNA contamination in the normalized cDNA libraries used in EST generation. The positions of the 14 ESTs found in this region are indicated in Figure 2 to show those associated with the cDNAs cloned and those which did not associate with genomic DNA of obvious coding potential. Four ESTs corresponded to 3 of the 4 cDNAs cloned from the region (Table 2). One EST encoded a histone H2B.1 gene and another was a repetitive element. Of the remaining 8, 6 EST clones were used as probes of cDNA libraries with negative results. Those sequences representing putative 3' ends of cDNA were searched for the presence of poly (A)+ addition signals. Five of the 13 ESTs which had 3' end sequence, had the sequence ATAAA or ATTAA. Five of the remaining 8 ESTs that did not have a poly (A)+ addition signal had genomic encoded stretches of poly (A) near the end of EST sequence and, therefore, may have been created by oligo d(T) priming of contaminating genomic DNA. This analysis was expanded to include all ESTs in the large-insert bacterial contigs with definitive 3' ends. Of the remaining 26, 15 had 3' end sequence and, of these, 8 had poly (A)+ addition signals. Five of these 8 ESTs were associated with the cloned cDNAs. Of the remaining 7 which did not have poly (A)+ addition signals, 4 had genomic encoded stretches of poly (A).

i. Butyrophilin gene family

The human homolog of the bovine butyrophilin gene (BT) was cloned and mapped to approximately 480 kb centromeric to HFE (Figure 1). BT is a transmembrane protein of unknown function which constitutes 40% of the total protein associated with the fat globule of bovine milk (Jack *et al.* J. Biol. Chem. 265:14481-14486 (1990)). A human homolog of BT has recently been cloned by Tayloer *et al.* (Biochem Biophys Acta 1306:1-4 (1996)). The results in this study indicated that BT is a member of a gene family with at least five other members of the family residing in this region (Figure 1). A comparison of these proteins is shown in Figure 3. The proteins were aligned based on their descending order of relatedness and to minimized gaps in the sequence. Each of the five proteins

display varying degrees of homology to BT. BTF1 (cDNA 21), BTF2 (cDNA 32), BTF5 (cDNA 44), and BTF3 (cDNA 29) are 45%, 48%, 46%, and 49%, identical to BT, whereas BTF4 (cDNA 23), which is more similar to BTF3 (cDNA 29), is only 26% identical. This low degree of identity to BT is largely due to a truncation at the carboxyl terminus of the protein. The BTF family falls into two groups: BTF1 and 2 which are more related to each other than to BT or the other BTF members, and BTF5, 3 and 4, which appear to have a common evolutionary origin. The order of these genes on the chromosome suggests that the BT gene has duplicated two times, giving rise to BTF1 and BTF5. Subsequently, it appears likely these two genes experienced further duplication events to give rise to the other members in their groups.

The three major components of BT, the B-G immunoglobulin superfamily domain (containing the V consensus sequence) (Miller *et al.* Proc. Natl. Acad. Sci. U.S.A. 88:4377-4381 (1991)), the transmembrane region, and the B30-2 exon are found in all of these proteins (with the exception of BTF4 (cDNA 23) which lacks the B30-2 exon by virtue of the carboxyl terminal truncation). The exon B30-2 is a previously noted feature of the MHC class 1 region found approximately 200 kb centromeric to the HLA-A gene (Vernet *et al.*, J. Mol. Evol. 37:600-612 (1993)). In addition this exon is found in several genes of diverse function telomeric to HLA-A namely MOG (approximately 200 kb) and RFP (approximately 1 megabase) (Amadou *et al.* Genomics 26:9-20 (1995)).

The levels of the BTF mRNA were analyzed by northern blot analysis (Figure 4A). The expression of the BTF genes fell into two patterns. BTF1 and BTF2 were expressed as a single major transcript of 2.9 kb and one minor transcript of 5.0 kb. These genes were expressed at high levels in all the tissues tested with the exception of the kidney where the expression level was less. The two genes are 90% identical at the DNA sequence level, therefore, it is possible that the signal observed on the northern blots was the result of cross-hybridization and only one of the two genes was actually expressed. To address this possibility RT-PCR experiments were carried out on a panel of different tissues in order to detect possible tissue dependent expression that would suggest that both genes are expressed. Identical, and thus equivocal, results were obtained with both BTF1 and BTF2 amplification (Figure 4B).

The second group of genes, BTF3-5, are expressed as three (BTF5) (Figure 4A) and two (BTF3 and 4) transcripts ranging from 4.0 to 3.3 kb. BTF5 is expressed at moderate levels in all tissues tested with the exception of the kidney where the expression level is less. RT-PCR experiments showed that mRNA from the BTF5 gene can be found in all tissues tested, including the kidney (Figure 4B). Identical results were obtained with primers from the other genes of this group (data not shown). These genes are also 90% identical to each other at the DNA sequence level (but only 58% identical to BTF1 and 2), hence like BTF1 and BTF2, cross-hybridization could account for the similarity in size and patterns on the northern blots and RT-PCR. This might be particularly true for BTF4 which lacks the B30-2 exon but still hybridizes to larger size transcripts like BTF5 and BTF3.

ii. A gene with similarity to 52 kD Ro/SSA auto-antigen

Located approximately 120 kb telomeric to the HFE gene is a gene, RoRet, that has 58% amino acid similarity to the 52 kD Ro/SSA protein, an auto-antigen of unknown function that is frequently recognized by antibodies in patients with systemic lupus and Sjogren's syndrome (Anderson

et al. Lancet 2:456-560 (1961); Clark *et al. J. Immunol.* 102:117-122 (1969)) (Figures 1 and 2). Alignment of the predicted amino acid sequence of this cDNA with that of 52 kD Ro/SSA indicated two features associated with the 52 kD Ro/SSA protein: a putative DNA binding cysteine rich motif (C-X-(I,V)-C-X(11-30)-C-X-H-X-(F,I,L)-C-X(2)-C-(I,L,M)-X(10-18)-C-P-X-C) found at the N terminus (Freemont *et al. Cell* 64: 483-484 (1991)) and the B30-2 exon found near the carboxyl terminus, are both conserved in RoRet (Figure 5). Northern blot analysis indicated the RoRet gene was expressed as two major transcripts of 2.8 and 2.2 kb and two minor transcripts of 7.1 and 4.4 kb in all of the tissues on the blot at levels reflective of the RNA amounts as determined by β -actin probing (Figure 6A). Using RT-PCR, expression can also be detected in small intestine, kidney liver, and spleen (Figure 6B).

iii. Two genes with homology to a sodium phosphate transporter

A cDNA for a sodium phosphate transport protein (NPT1) was previously cloned and mapped to 6p21.3 using a somatic cell hybrid panel (Chong *et al. Genomics* 18:355-359 (1993)). NPT1 maps 320 kb telomeric to the HFE gene (Figures 1 and 2). Two additional cDNAs were cloned which show appreciable homology to NPT1 (Figure 5). These genes, NPT3 and NPT4, mapped 1.5 megabases and 1.3 megabases centromeric to the NPT1 gene (Figure 1). Like NPT1, the gene products of NPT3 and NPT4 were extremely hydrophobic, which may reflect a membrane location. Both proteins gave hydrophilicity profiles which were indistinguishable from NPT1 in this study (data not shown). Northern blot analysis indicated that the two genes have different patterns of expression (Figure 6C). NPT3 was expressed at high levels as a 7.2 kb transcript predominately in muscle and heart. Lesser amount of the mRNA were also found in brain, placenta, lung, liver and pancreas. RT-PCR analysis indicated that expression of the proper size PCR fragment for NPT3 was clearly absent in fetal brain, bone marrow and small intestine (Figure 6D). A smaller size fragment was detectable in all tissues with the exception of the liver, which may represent evidence for alternative splicing. Although expression was apparently absent from the kidney by northern blot analysis, it was detectable by RT-PCR. Expression was also noted in the mammary gland, spleen and testis. NPT4, on the other hand, was expressed only in the liver and the kidney as a smear of transcripts approximately 2.6 - 1.7 kb (Figure 6C). RT-PCR confirmed these results, although a small amount of the proper size PCR fragment was also found in the small intestine and testis (Figure 6D). Other tissues showed amplification, but the fragments were of larger and smaller size than that produced by the cDNA 22E positive control. Hence, these two genes which apparently have the structural characteristics of a sodium phosphate transporter, appeared to be under the control of different regulatory mechanism that lead to differential patterns of expression.

2. Sequencing of 235 kb from a Homozygous Ancestral (Affected) Individual

In these studies the entire genomic sequence was determined from an HH affected individual for a region corresponding to a 235,033 bp region surrounding the HFE gene between the flanking markers D6S2238 and D6S2241. The sequence was derived from a human lymphoblastoid cell line, HC14, that is homozygous for the ancestral HH mutation and region. The sequence from the ancestral chromosome (Figure 9) was compared to the sequence of the region in an unaffected individual (Figure 8) disclosed in copending U.S.S.N. 08/724,394 to identify polymorphic sites. A

subset of the polymorphic alleles so defined were further studied to determine their frequency in a collection of random individuals.

The cell line HC14 was deposited with the ATCC on June 25, 1997, and is designated ATCC CRL-12371.

5 a. Cosmid Library Screening

The strategy and methodology for sequencing the genomic DNA for the affected individual was essentially as described in copending U.S.S.N. 08/724,394, hereby incorporated by reference in its entirety. Basically, a cosmid library was constructed using high molecular weight DNA from HC14 cells. The library was constructed in the supercos vector (Stratagene, La Jolla, CA).
10 Colonies were replicated onto Biotrans nylon filters (ICN) using standard techniques. Probes from genomic subclones used in the generation of the sequence of the unaffected sequence disclosed in 08/724,394 were isolated by gel electrophoresis and electroporation. Subclones were chosen at a spacing of approximately 20 kb throughout the 235 kb region. The DNA was labeled by incorporation of ³²P dCTP by the random primer labeling approach. Positively hybridizing clones were isolated to
15 purity by a secondary screening step. Cosmid insert ends were sequenced to determine whether full coverage had been obtained, and which clones formed a minimal path of cosmids through the 235 kb region.

 b. Sample Sequencing

A minimal set of cosmid clones chosen to cover the 235 kb region were prepped with
20 the Qiagen Maxi-Prep system. Ten micrograms of DNA from each cosmid preparation were sonicated in a Heat Systems Sonicator XL and end-repaired with Klenow (USB) and T4 DNA polymerase (USB). The sheared fragments were size selected between three to four kilobases on a 0.7% agarose gel and then ligated to BstXI linkers (Invitrogen). The ligations were gel purified on a 0.7% agarose gel and cloned into a pSP72 derivative plasmid vector. The resulting plasmids were transformed into
25 electrocompetent DH5α cells and plated on LB-carbenicillin plates. A sufficient number of colonies was picked to achieve 15-fold clone coverage. The appropriate number of colonies was calculated by the following equation to generate a single-fold sequence coverage: Number of colonies = size of bacterial clone (in kb)/average sequence read length (0.4 kb). These colonies were prepped in the 96-well Qiagen REAL, and the 5' to 3' DNA Prep Kit, and AGCT end-sequenced with oligo MAP1 using
30 standard ABI Dye Terminator protocols. MAP1 was CGTTAGAACGCGGCTACAAT.

 c. Genomic Sequencing

The MAP1 sequences from the cosmid clones HC182, HC187, HC189, HC195, HC199, HC200, HC201, HC206, HC207, and HC212 were assembled into contigs with the Staden package (available from Roger Staden, MRC). A minimal set of 3 kb clones was selected for
35 sequencing with oligo labeled MAP2 that sits on the opposite end of the plasmid vector. The sequence of MAP2 was GCCGATTCATTAATGCAGGT. The MAP2 sequences were entered into the Staden database in conjunction with the MAP1 sequences to generate a tiling path of 3 kb clones across the region. The plasmid 3 kb libraries were concurrently transformed in 96 well format into pox38UR (available from C. Martin, Lawrence Berkeley Laboratories). The transformants were subsequently
40 mated with JGM (Strathman et al. P.N.A.S. 88:1247-1250 (1991) in 96 well format. All matings of the

3 kb clones within the tiling path were streaked on LB-carbenicillin-kanamycin plates and a random selection of 12 colonies per 3 kb clone was prepped in the AGCT system. The oligos -21: CTGTAAAACGACGGCCAGTC, and REV: GCAGGAAACAGCTATGACC were used to sequence off both ends of the transposon. Each 3 kb clone was assembled in conjunction with the end sequence information from all cosmid clones in the region.

In some regions, the coverage of the genomic sequence by cosmids was incomplete. Any gaps in the sequence were filled by using standard PCR techniques to amplify genomic DNA in those regions and standard ABI dye terminator chemistry to sequence the amplification products.

d. Identification of Polymorphic Sites

The assembled sequence of the cosmid clones in connection with the PCR amplified genomic DNA was compared to the genomic sequence of the unaffected individual using the FASTA algorithm. Numeric values were assigned to the sequenced regions of 1 to 235,303, wherein base 1 refers to the first C in the CA repeat of D6S2238 and base 235,303 is the last T in the GT repeat of D6S2241 of the unaffected sequence (Figure 8). Table 1 lists the differences between the two compared sequences. Note that previously disclosed (Feder et al., Nature Genetics 13:399-408 (1996)) polymorphic sites D6S2238 (base 1), D6S2241 (base 235,032), 24d1 (base 41316), and D6S2239 (base 84841) are not included in the list of new polymorphisms, although they are provided for reference in a footnote to the Table and were observed in the ancestral sequence. In the Table, a single base change such as C-T refers to a C in the unaffected sequence at the indicated base position that occurred as a T in the corresponding position in the affected sequence. Similarly, an insertion of one or more bases, such as TTT in the affected sequence, is represented as "TTT INS" between the indicated bases of the unaffected sequence. A deletion of one or more bases occurring in the affected sequence, such as AAA DEL, is represented as the deletion of the indicated bases in the unaffected sequence.

e. Characterization of Rare Polymorphisms

In this study about 100 of the polymorphisms of Table 1 were arbitrarily chosen for further characterization. Allele frequencies in the general population were estimated by OLA analysis using a population of random DNAs (the "CEPH" collection, J. Dausset et al., Genomics 6(3):575-577 (1990)). These results are provided in Table 2.

One single base pair difference, occurring at base 35983 and designated C182.1G7T/C (an A to G change on the opposite strand) was present in the ancestral chromosome and rare in the random DNAs. This change occurred in a noncoding region of the hemochromatosis gene near exon 7 approximately 5.3 kb from the 24d1 (Cys282Tyr) mutation. OLA was used to genotype 90 hemochromatosis patients for the C182.1G7T/C base pair change. The frequency for C occurring at this position in the patients was 79.4% as compared to 5% in the random DNAs. Eighty-five of the 90 patients assayed contained identical 24d1 and C182.1G7T/C genotypes. Four of the remaining 5 patients were homozygous at 24d1 and heterozygous at C182.1G7T/C; one was heterozygous at 24d1 and homozygous at C182.1G7T/C. The primers used for this analysis were as follows.

PCR primers for detection:

182.1G7.F 5'-GCATCAGCGATTAACCTCTAC -3'

182.1G7.R 5'-TTGCATTGTGGTGAAATCAGGG -3'

For the detection assay, the biotinylated primers used were as follows.

5 182.1G7.C 5' (b)CTGAGTAATTGTTTAAGGTGC -3'

182.1G7.T 5' (b)CTGAGTAATTGTTTAAGGTGT -3'

The phosphorylated digoxigenin-labeled primer used was:

182.1G7.D 5' (p)AGAAGAGATAGATATGGTGG -3'

10 A further rare single base pair change was detected at 61,465bp. The inheritance pattern of this polymorphism, C195.1H5C/T (a G to A change on the opposite strand), is identical to that of 24d1. The frequency of T occurring at that position (C195.1H5T) observed in a set of 76 patients was 78.5% as compared to 5% in random individuals.

15 PCR primers for detection:

1951H5.3F 5'-GAATGTGACCGTCCCATGAG-3'

1951H5.3R 5'-CAACTGAATATGCAGAAAAAAGTACACC-3'

For the detection assay, the biotinylated primers used were:

1951H5.3.4 5' (b)AGTAGCTGGGACTCACGGTGT-3'

20 1957H5.3.5 5' (b)AGTAGCTGGGACTCACGGTGC-3'

The phosphorylated digoxigenin-labeled primer used was:

1951H5.3.6 5' (p)GCGCCACCACTCCCAGCTCAT-3'

25 These rare alleles are thus preferred surrogate markers for 24d1 and are especially useful in screening assays for the likely presence of 24d1 and/or 24d2.

All publications, patents, and patent applications cited herein are hereby incorporated by reference in their entirety.

WHAT IS CLAIMED IS:

- 1 1. An oligonucleotide comprising at least 8 to about 100 consecutive bases from the
2 sequence of Figure 9, or the complement of the sequence, wherein the at least 8 to about 100
3 consecutive bases includes at least one polymorphic site of Table 1.
- 1 2. The oligonucleotide of claim 1, wherein the polymorphic site is selected from the
2 group consisting of base 35983 or base 61465.
- 1 3. An oligonucleotide pair selected from the sequence of Figure 9 or its complement for
2 amplification of a polymorphic site of Table 1.
- 1 4. An isolated nucleic acid molecule comprising about 100 consecutive bases to about
2 235 kb substantially identical to the sequence of Figure 9, wherein the DNA molecule comprises at
3 least one polymorphic site of Table 1.
- 1 5. The isolated nucleic acid molecule of claim 4, wherein the polymorphic site is selected
2 from the group consisting of base 35983 or base 61465.
- 1 6. The isolated nucleic acid molecule of claim 4, wherein the nucleic acid is selected
2 from the group consisting of cDNA, RNA, or genomic DNA.
- 1 7. A polypeptide encoded by the nucleic acid molecule of claim 4.
- 1 8. An antibody which specifically recognizes the polypeptide of claim 7.
- 1 9. A method to determine the presence or absence of the common hereditary
2 hemochromatosis (HFE) gene mutation in an individual comprising:
3 providing DNA or RNA from the individual; and
4 assessing the DNA or RNA for the presence or absence of a haplotype of Table 1,
5 wherein, as a result, the absence of a haplotype of Table 1 indicates the likely absence of the
6 HFE gene mutation in the genome of the individual and the presence of the haplotype indicates the
7 likely presence of the HFE gene mutation in the genome of the individual.
- 1 10. The method of claim 9, wherein the method further comprises assessing the RNA or
2 DNA for the presence of at least one of the polymorphisms 24d1, 24d2, HHP-1, HHP-19, or HHP-29;
3 or microsatellite repeat alleles 19D9:205, 18B4:235, 1A2:239, 1E4:271, 24E2:245, 2B8:206, 3321-
4 1:98, 4073-1:182, 4440-1:180, 4440-2:139, 731-1:177, 5091-1:148, 3216-1:221, 4072-2:170, 950-
5 1:142, 950-2:164, 950-3:165, 950-4:128, 950-6:151, 950-8:137, 63-1:151, 63-2:113, 63-3:169, 65-

6 1:206, 65-2:159, 68-1:167, 241-5:108, 241-29:113, 373-8:151, 373-29:113, D6S258:199, D6S265:122,
7 D6S105:124, D6S306:238, D6S464:206, or D6S1001:180.

1 11. The method of claim 9, wherein the haplotype comprises at least two polymorphic
2 sites of Table 1.

1 12. The method of claim 11, wherein one of the at least two polymorphic sites of Table 1
2 is at base 35983 or 61465.

1 13. The method of claim 11, wherein the haplotype comprises at least three polymorphic
2 sites of Table 1.

1 14. A method to determine the presence or absence of the common hereditary
2 hemochromatosis (HFE) gene mutation in an individual comprising:
3 providing DNA or RNA from the individual; and
4 assessing the DNA or RNA for the presence or absence of a genotype defined by a
5 polymorphic allele of Table 1,
6 wherein, as a result, the absence of a genotype defined by a polymorphic allele of Table 1
7 indicates the likely absence of the HFE gene mutation in the genome of the individual and the
8 presence of the genotype indicates the likely presence of the HFE gene mutation in the genome of the
9 individual.

1 15. The method of claim 15, wherein the polymorphic allele occurs in less than about 50%
2 of a random population of individuals.

1 16. The method of claim 15, wherein the polymorphic allele occurs in less than about 25%
2 of a random population of individuals.

1 17. The method of claim 15, wherein the polymorphic allele occurs in less than about 5%
2 of a random population of individuals.

1 18. The method of claim 15, wherein the genotype is C182.1G7C or C195.1H5T.

1 19. A kit comprising one or more oligonucleotides of claim 1.

1 20. A kit comprising at least one oligonucleotide pair of claim 3.

1 21. A culture of lymphoblastoid cells having the designation ATCC CRL-12371.

- 1 22. An isolated nucleic acid sequence comprising a sequence substantially identical to
2 BTF1.
- 1 23. The isolated nucleic acid sequence of claim 23, wherein the nucleic acid is cDNA.
- 1 24. The polypeptide encoded by the isolated nucleic acid sequence of claim 23.
- 1 25. A vector comprising the nucleic acid sequence of claim 23.
- 1 26. A host cell stably transfected with the nucleic acid sequence of claim 23.
- 1 27. An antibody that is specifically immunoreactive with the polypeptide of claim 24.
- 1 28. An isolated nucleic acid sequence comprising a sequence substantially identical to
2 BTF2.
- 1 29. The isolated nucleic acid sequence of claim 28, wherein the nucleic acid is cDNA.
- 1 30. The polypeptide encoded by the isolated nucleic acid sequence of claim 28.
- 1 31. A vector comprising the nucleic acid sequence of claim 28.
- 1 32. A host cell stably transfected with the nucleic acid sequence of claim 28.
- 1 33. An antibody that is specifically immunoreactive with the polypeptide of claim 30.
- 1 34. An isolated nucleic acid sequence comprising a sequence substantially identical to
2 BTF3.
- 1 35. The isolated nucleic acid sequence of claim 34, wherein the nucleic acid is cDNA.
- 1 36. The polypeptide encoded by the isolated nucleic acid sequence of claim 34.
- 1 37. A vector comprising the nucleic acid sequence of claim 34.
- 1 38. A host cell stably transfected with the nucleic acid sequence of claim 34.
- 1 39. An antibody that is specifically immunoreactive with the polypeptide of claim 36.

- 1 40. An isolated nucleic acid sequence comprising a sequence substantially identical to
2 BTF4.
- 1 41. The isolated nucleic acid sequence of claim 40, wherein the nucleic acid is cDNA.
- 1 42. The polypeptide encoded by the isolated nucleic acid sequence of claim 40.
- 1 43. A vector comprising the nucleic acid sequence of claim 40.
- 1 44. A host cell stably transfected with the nucleic acid sequence of claim 40.
- 1 45. An antibody that is specifically immunoreactive with the polypeptide of claim 42.
- 1 46. An isolated nucleic acid sequence comprising a sequence substantially identical to
2 BTF5.
- 1 47. The isolated nucleic acid sequence of claim 46, wherein the nucleic acid is cDNA.
- 1 48. The polypeptide encoded by the isolated nucleic acid sequence of claim 46.
- 1 49. A vector comprising the nucleic acid sequence of claim 46.
- 1 50. A host cell stably transfected with the nucleic acid sequence of claim 46.
- 1 51. An antibody that is specifically immunoreactive with the polypeptide of claim 48.
- 1 52. An isolated nucleic acid sequence comprising a sequence substantially identical to
2 NTP-3.
- 1 53. The isolated nucleic acid sequence of claim 52, wherein the nucleic acid is cDNA.
- 1 54. The polypeptide encoded by the isolated nucleic acid sequence of claim 52.
- 1 55. A vector comprising the nucleic acid sequence of claim 52.
- 1 56. A host cell stably transfected with the nucleic acid sequence of claim 52.
- 1 57. An antibody that is specifically immunoreactive with the polypeptide of claim 54.

- 1 58. An isolated nucleic acid sequence comprising a sequence substantially identical to
2 NTP-4.
- 1 59. The isolated nucleic acid sequence of claim 58, wherein the nucleic acid is cDNA.
- 1 60. The polypeptide encoded by the isolated nucleic acid sequence of claim 58.
- 1 61. A vector comprising the nucleic acid sequence of claim 58.
- 1 62. A host cell stably transfected with the nucleic acid sequence of claim 58.
- 1 63. An antibody that is specifically immunoreactive with the polypeptide of claim 60.
- 1 64. An isolated nucleic acid sequence comprising a sequence substantially identical to
2 RoRet.
- 1 65. The isolated nucleic acid sequence of claim 64, wherein the nucleic acid is cDNA.
- 1 66. The polypeptide encoded by the isolated nucleic acid sequence of claim 64.
- 1 67. A vector comprising the nucleic acid sequence of claim 64.
- 1 68. A host cell stably transfected with the nucleic acid sequence of claim 64.
- 1 69. An antibody that is specifically immunoreactive with the polypeptide of claim 66.
- 1 70. An isolated nucleic acid sequence comprising at least 18 contiguous nucleotides
2 substantially identical to 18 contiguous nucleotides of BTF1.
- 1 71. An isolated nucleic acid sequence comprising at least 18 contiguous nucleotides
2 substantially identical to 18 contiguous nucleotides of BTF2.
- 1 72. An isolated nucleic acid sequence comprising at least 18 contiguous nucleotides
2 substantially identical to 18 contiguous nucleotides of BTF3.
- 1 73. An isolated nucleic acid sequence comprising at least 18 contiguous nucleotides
2 substantially identical to 18 contiguous nucleotides of BTF4.
- 1 74. An isolated nucleic acid sequence comprising at least 18 contiguous nucleotides
2 substantially identical to 18 contiguous nucleotides of BTF5.

- 1 75. An isolated nucleic acid sequence comprising at least 18 contiguous nucleotides
2 substantially identical to 18 contiguous nucleotides of NPT3.
- 1 76. An isolated nucleic acid sequence comprising at least 18 contiguous nucleotides
2 substantially identical to 18 contiguous nucleotides of NPT4.
- 1 77. An isolated nucleic acid sequence comprising at least 18 contiguous nucleotides
2 substantially identical to 18 contiguous nucleotides of RoRet.

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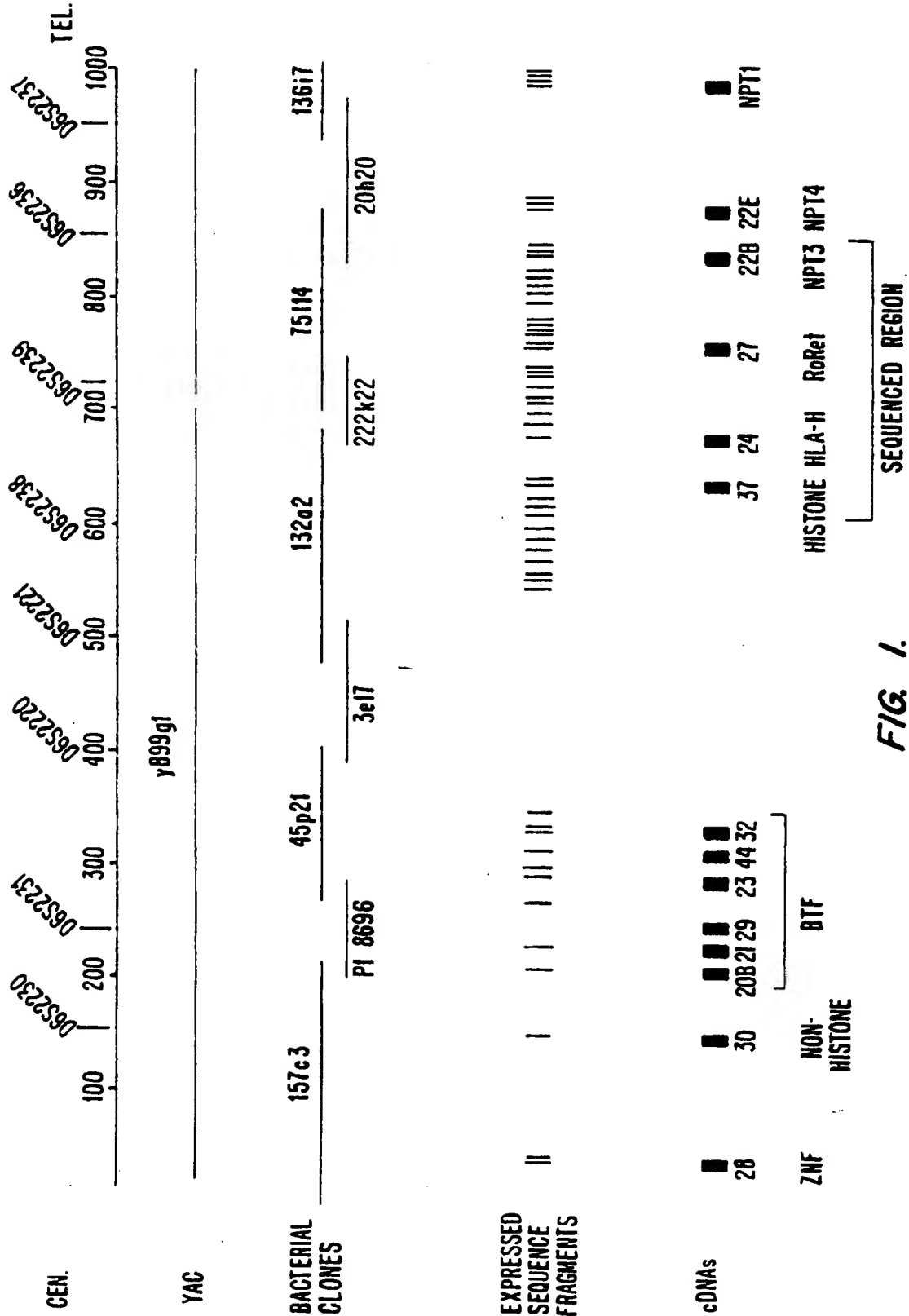


FIG. 1.

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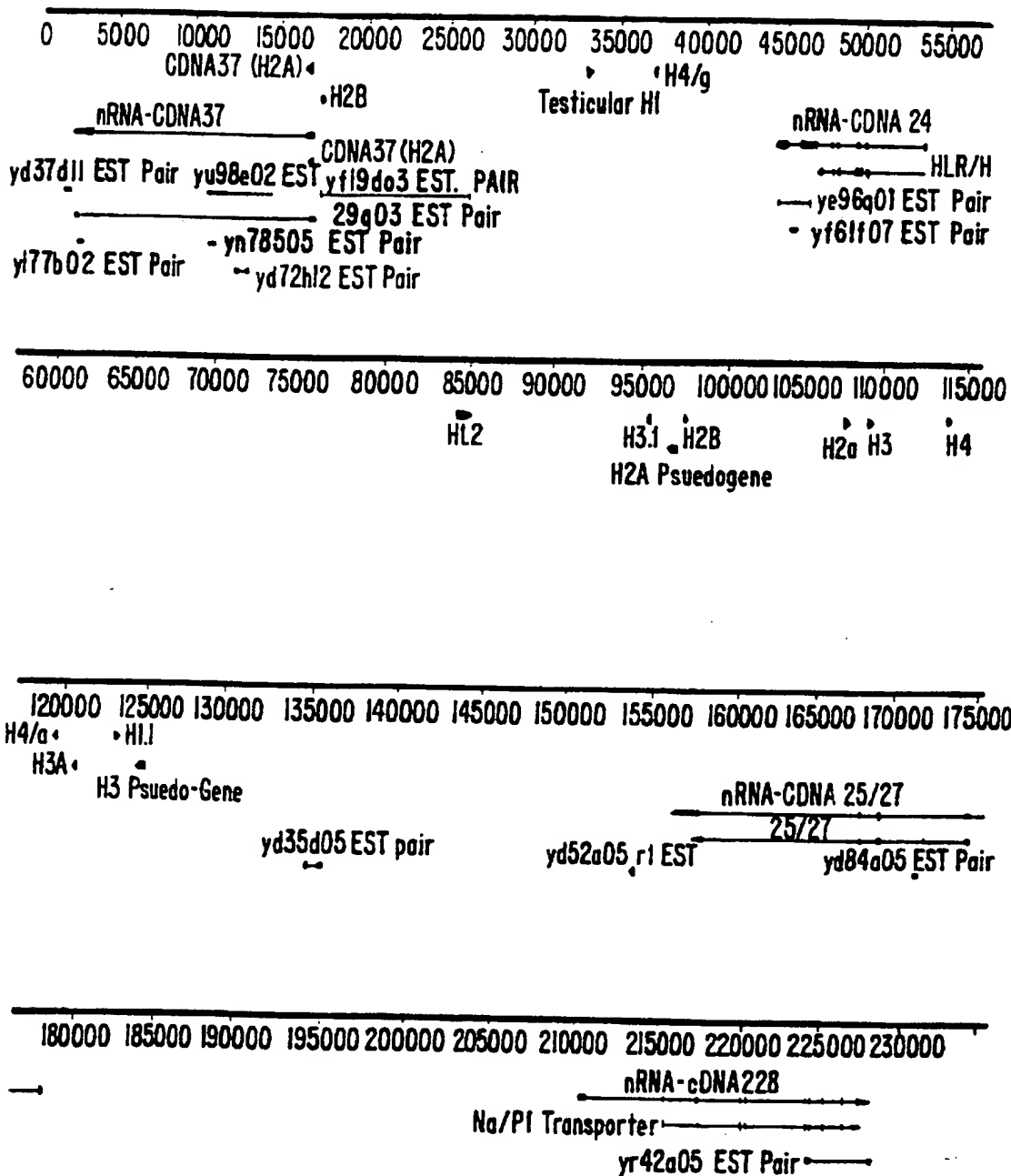


FIG. 2.

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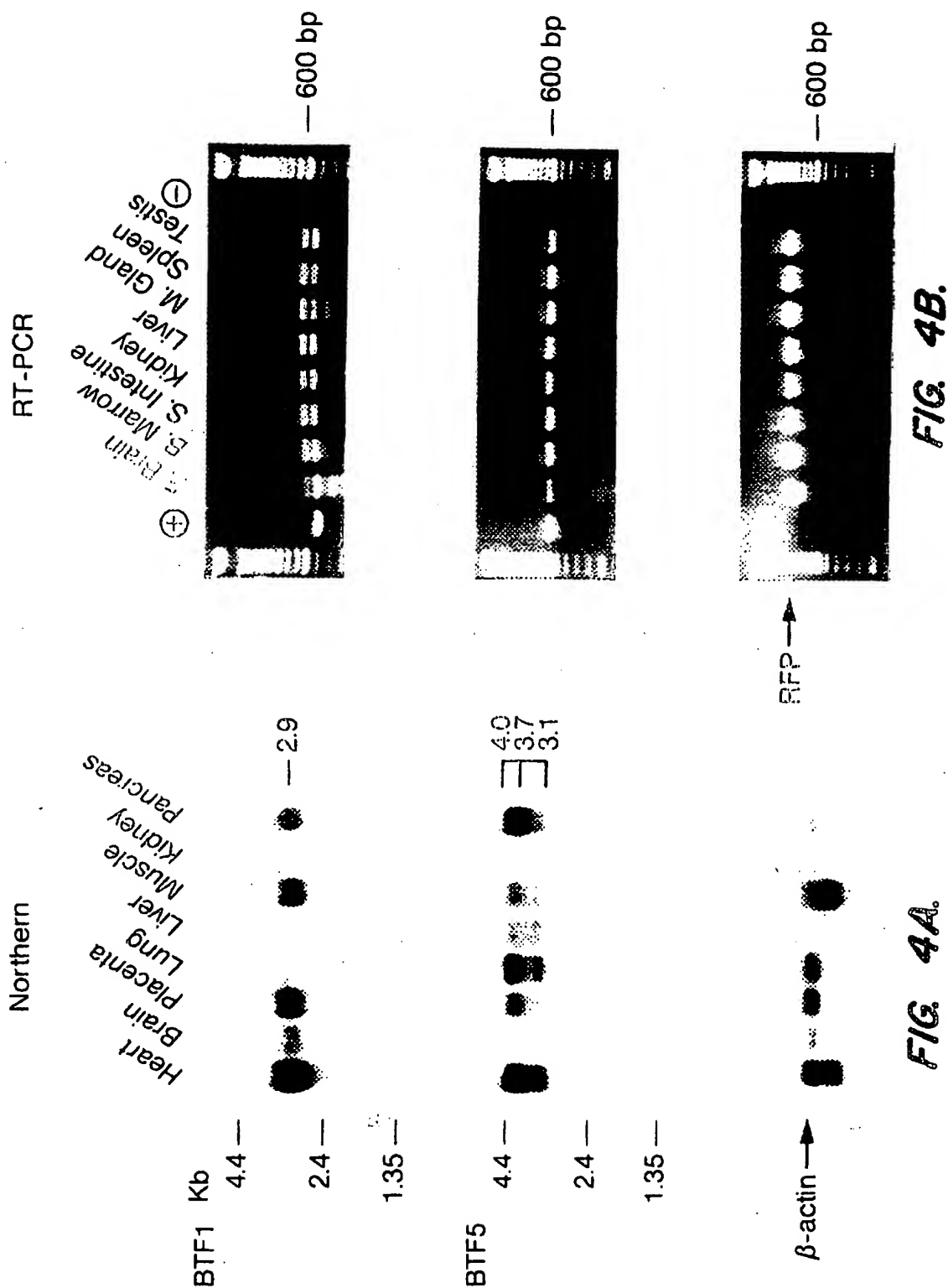
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BTF2    MEPAAALHFSLPASLLLLLLLLLLLLSLCALVSAQFTVVGPANPILAMVGENTTLRCHLSPE
BTF5    MKMASFLAFLLLNFR---VCLLLLQLLMPHSAQFSVLGPGSPILAMVGEDADLPCHLFPT
BTF3    MKMASSLAFLLLNFH---VSLFLVQLLTPCSAQFSVLGPGSPILAMVGEDADLPCHLFPT
BTF4    MKMASSLAFLLLNFH---VSLLLVQLLTPCSAQFSVLGPGSPILAMVGEDADLPCHLFPT
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BT      ASAEHLELRWFRKKVSPAVLVHRDGREQAEQMPYRGRATLVQDGIAGRVALRIRGVR
BTF1    KNAEDMEVRWFRSQFSPAVFVYKGGREERTEEQMEEYRGRTTFVSKDISRGSVALVIHNIT
BTF2    KNAEDMEVRWFRSQFSPAVFVYKGGREERTEEQMEEYRGRTTFVSKDINRGSVALVIHNIT
BTF5    MSAETMELKWVSSSLRQVVNVYADGKEVEDRQSAPYRGRTSILRDGITAGKAALRIHNVT
BTF3    MSAETMELRWVSSSLRQVVNVYADGKEVEDRQSAPYRGRTSILRDGITAGKAALRIHNVT
BTF4    MSAETMELKWVSSSLRQVVNVYADGKEVEDRQSAPYRGRTSILRDGITAGKAALRIHNVT
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BTF2    AQENGIYRCYFQEGRSYDEAILRLVVAGLGSKPLIEIKAQEDGSIWLECISGGWYPEPLT
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BTF3    ASDSGKYLICYFQDGDFFYEKALVELKVAALGSDLHIEVKGYEDGGIHLECRSTGWYPPQI
BTF4    ASDSGKYLICYFQDGDFFYEKALVELKVAALGSLNLHVEVKGYEDGGIHLECRSTGWYPPQI
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BT      QWRTSKGEKFPSTSESARNPDEEGLFTVAASVIIRDSTSTKNVSCYIQNLLLGQEKKEVEISI
BTF1    VWRDPYGGVAPALKEVSMPDADGLFMVTTAVIIRDKSVRNMSCSINNLLGQKKESVIFI
BTF2    VWRDPYGEVVPALKEVSIADADGLFMVTTAVIIRDKYVRNVSCSVNNTLLGQEKETVIFI
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BTF2    PESFMPSASPWMVALAVILTASPWMVSMVTILAVFIIFMAVSIKKKLOREKKILSGEK
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BTF3    ADPFFRSAQPWIAALAG-----TLPISLLLLLAGASYFLWRQQKEKIALSRET
BTF4    ADPFFRSAQPWIAALAG-----TLPILLLLLLAGASYFLWRQQKEITALSSEI
      *
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BTF2    KVEQE-----EKE-----IAQQLQEEELRWRTFLHA-----
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BTF4    -----

```

Figure 3 (Page 1 of 2)

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BTF2	KESLCRVGVFLDYEAGDVSFYNMRDRSHIYTCPRSAFTVPVRPFFRLGS-DDSPIFICPA
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BTF3	PEPPRKVGIFLDYETGEISFYNATDGSHIYTFPHASFSEPLYPVFRILTLEPTALTICPI
BTF4	-----
BT	ADGPERVTVIANAQDLSKEIPLSPMGEESAPRDADTLHSLIPTQPSQGAP-----
BTF1	LTGANGVTVP-----EEGLTLHRVGTHQSL-----
BTF2	LTGASGVMVP-----EEGLKLHRVGTHQSL-----
BTF5	-----
BTF3	PKEVESSPDPLVPDHSLETPLTPGLANESGEPQAEVTSLLLPAHPGAEVSPSATTNQNH
BTF4	-----
BT	-----
BTF1	-----
BTF2	-----
BTF5	-----
BTF3	KLQARTEALY
BTF4	-----



		CYSTEINE-RICH DOMAIN	
52 kD Ro	MASAARLTMMWE	EVTCPICLDPFVEPV	SIIECGHSCFQECISQVGKGGG
RoRet	MASITSTKMMEE	ATCSICLSLMTNPVS	INCGHSYCHLCITDFFKNPSQKQLRQETFCPCQCRAPFHMDSLRPNKQLGSLIE
	***	** ** *	*** ** *
52 kD Ro	NLKKISQEA	REGTQGERCAVHGERL	HLFCEKDGKALCWVCAQSKKHRDH
RoRet	ALKKTDQEM	-----	SCEEHGEQFHLFCED
	*** **	*** ** *	*** ** *
52 kD Ro	EVEIAIKRADW	KKTVETQKSRIHA	EFVQQKNFLVEEERQRLQLELEKDEREQRLILGEKEAKLAQSQALQELISELDRRCHS
RoRet	KLSTAMRITK	WKEKVQIQRKIRSD	FKNLQCFLHEEEKSYLWRLKEEQQLSRRLDYEAGLGLKSNELKSHILELEKCKQG
	*	** *	* ** *
52 kD Ro	SALELLQEV	IIVLERSESWNLK	LDITSPELRSVCHVP
RoRet	SAQKLLQN	VNDTLRSWAVKLET	SEAVSLELHMTMCNVSKLYFDVKKMLRSHQVSVTLDPDTAHHELILSEDRRQVTRGYTQE
	** *** *	* ** *	*****
52 kD Ro	SIPGNEERF	DSYPMVLGAQH	FHSGKHYYEVDVTGKEAWDLGVCRDSVRRKGHFLSSKSGFWTIWLWNKQKYEAGTYPQTP
RoRet	NQDTSSRR	FTAFPCVLGCEG	FTSGRRYFEVDVGE
	**	* ** *	*****
52 kD Ro	HLQVPPCQ	VGIFLDYEAGMV	SFYFNITDHGSLIYSE
RoRet	HLHEQPLL	VGIFLDYEAGV	SFYNG-NTGCHIFTFPKASE
	**	*****	*****

FIG. 5A.

[illegible]

FIG. 5B.

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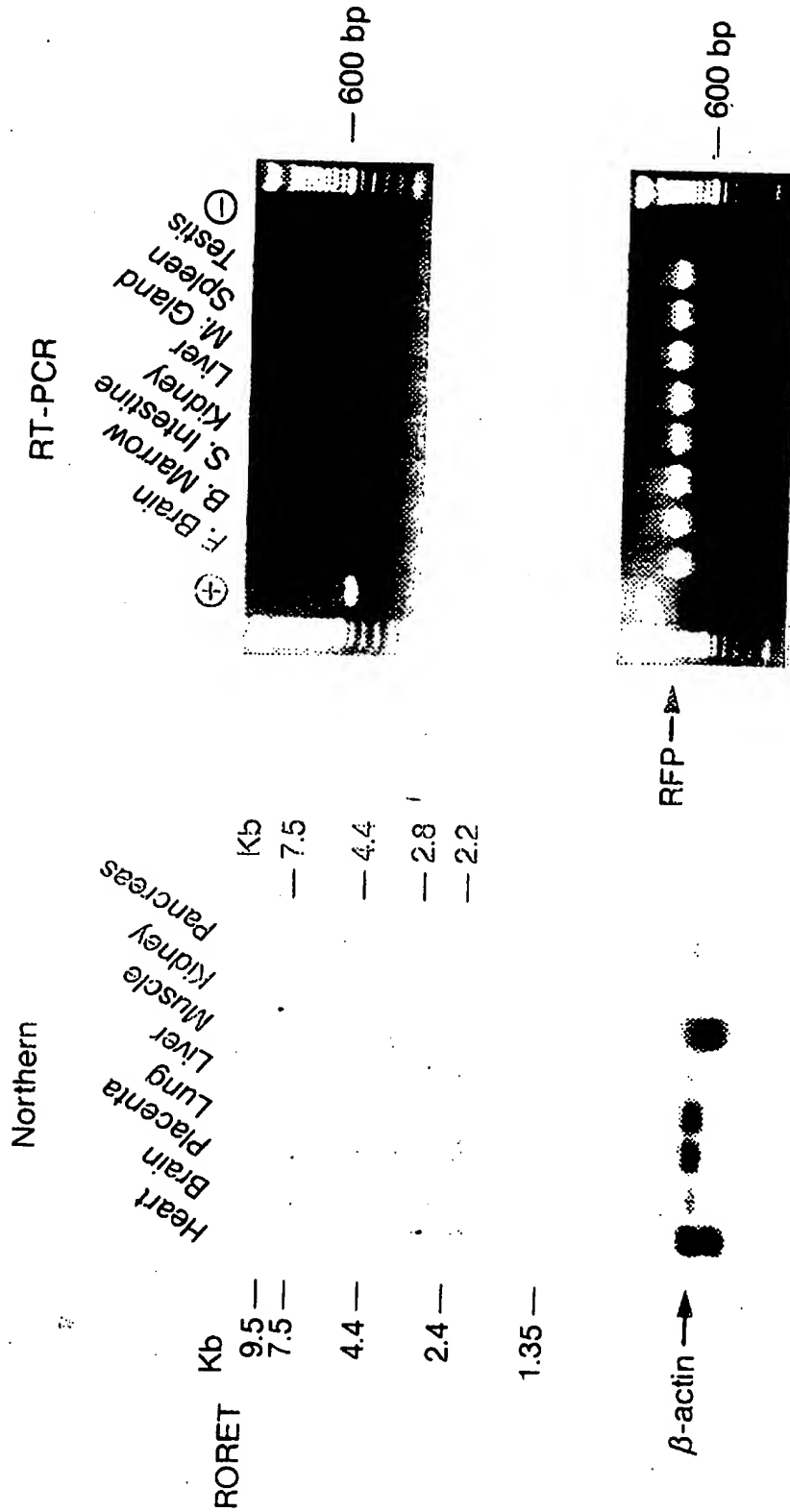
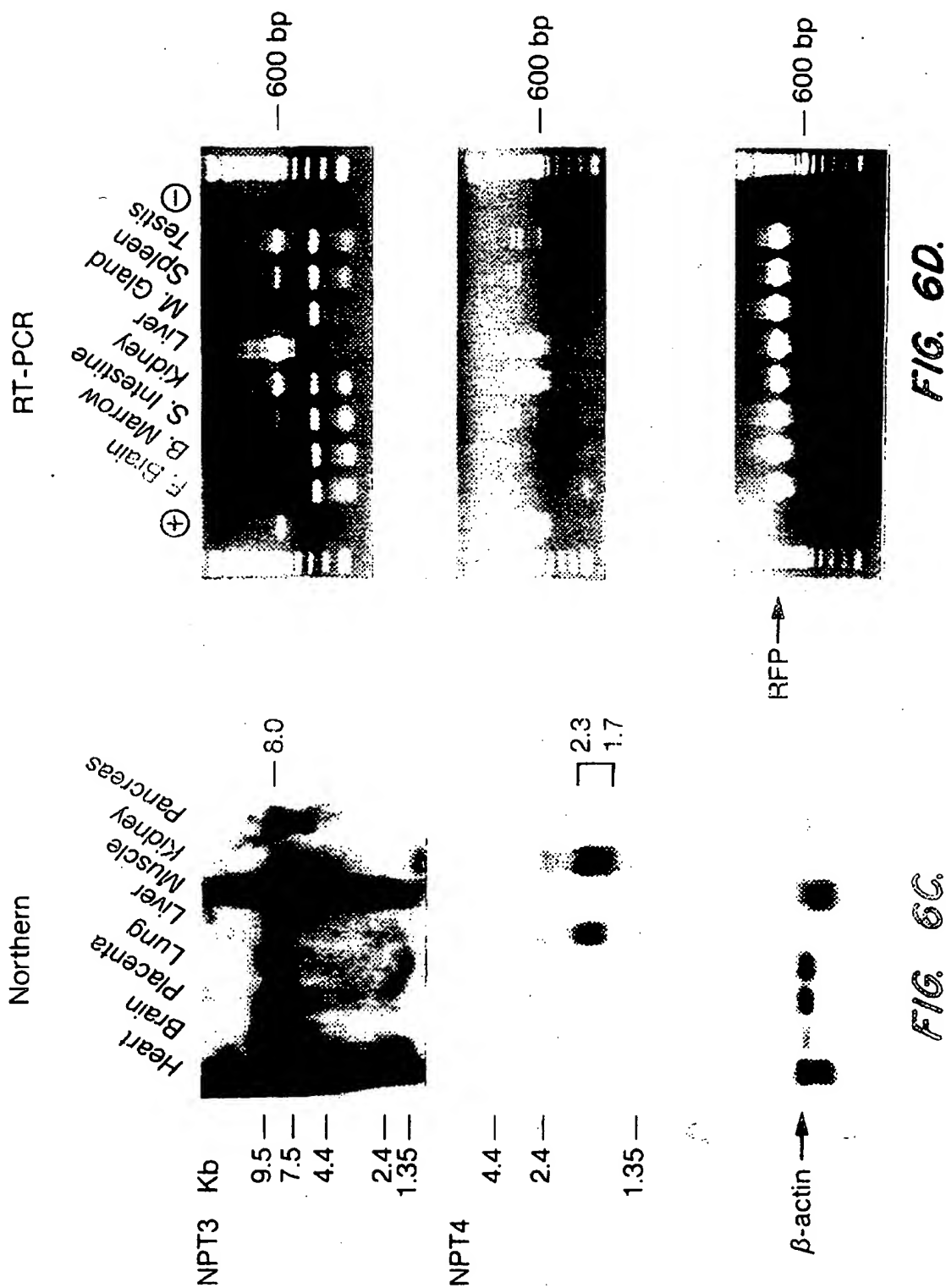


FIG. 6B.

FIG. 6A.

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2521 GGAACAAAGG AAGGTTGTCG ACTTTTGTAA TTCTATAGAA CAGGATCATA GAGCTACCTG
2581 GCTGTCAATG TGTACTATTC TTTAAGAAAA GGAAAGACTG ACCCACCATA GGCAACTTAC
2641 AAGATCACTA GGGCTGACTC TTTGTTTTTT TCTTGAGGCA GTCTCACTGT CACCCAGGCT
2701 GTAGGGCAAT GGTGTGATCT CAGCTCACTG CAATCTCCAC CTCCCAGGTT CAAGGCGATT
2761 TCTTGCCCTA GACTCCCAAG TAGCTGGGAT TACAGGCTCT AAATCTGTAC CCTCCCAGT
2821 AGCGCTCCTG CCACCACTTG CCCAGCTAAT TTTTGTATTT TTAGTAGAGA TGGGGTTTCA
2881 CTATGTTGGC CAGGCTAGTT TGGAACTCCT GACCTCCAGT GATCCATTCT CATTGGCCTC
2941 CCAAAGTGCT GGGATTACAG GCAGGAGCCG CCAGGGCTGC CACTTTGATG TCAGACTCAG
3001 AGAGTACAGA TGGGATAGGG TGGGGGTGGG AACATGTAGT CAAGGCTGAC TCTACCTGTT
3061 TCAAAGATGC CCTGCAGAAC TGTGTGGGAG TCTCTCACAG ATGGCTGCCT GGGTGGGACC
3121 CCACCAAACCT GAAAGACCGA GACTTCAGGC AGGGCAGATG GAGTAGGCCA ACTACAGAGC
3181 CAGAGGTGAC ACTGAGACAC CACTGGGCCT GGAAATCAGG GCATCAAGCC AAAGAGGGTT

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3241 TTTCTTAAGA CCTAACAGAA TTTGCCCTTGC CAGGTTTTTGG ACTTGATTAG GACACATTAC
3301 ACCTTCCTTC TTTCCTATTT CTCCATTTTC TAATGGGAAT GTCTATTATG CCTGTTTCAC
3361 CATTGTACCT TAGAAGCATG TAACATTTCT GGTTCACAC GTTCAAAGCT GGAAAGGAAT
3421 TTTGTCTCTG GATGAATCAC ACATTGAGCC TCACCCGTAA CCTGATTTAG ATGATTTTTT
3481 AGATGACACT TTGAACTTTA GAATGATGC TAGAATGAGT TAAGACTTTC AGGGGGCTGT
3541 TGGGATGGAA TAATTTTTTT TTTTTTTT AGACGGAGTC TAGCTCTGTC GCCCAGGCTG
3601 GAGTGCAGTG GCACCATCTT GGCTCACTGC AAGCTCTGCC TCCCGGGTTT ATGCCATTCT
3661 CATGTCTCAG CCTCCAGAGT AGCTGGGACT ACAGGCGCCC GCCACCACGC CTGGCTAATT
3721 TTTTTTTTAT TTAGTAGAG ATGGGGTTTC ACCGTGTTAG CCAGAATGGT CTCGATCTCT
3781 TGACCTTCTG ATCCGCCTGC CTGGCTTCC CAAAGTGCTG GGATTACACG TGTGAGCCAC
3841 CATGCCCCGC TGGGATGGAA TAAATTTATC TTGTATGGGA GAAGGACATA CATTTTGGCA
3901 GGTCAAGGAC AGAATGTTAT GGACTAACT GTGTCCCCCA AAATTCATTT ATTAAACCC
3961 TAAACCCAG TGTGACTGCA TTTGGACATA GAGCCTTTAG GGGGTACATA AAACCTAAAGA
4021 TCACAGGATA GGGCCCTAAT CCCATTGGGG CTGGTGTCTT TACAGAAGAT GAGACACTTA
4081 GAGCTCTCTC TCCACGCAGG CACCAAGGAA ACACCATAA AACACACAGT GAGATGGCAG
4141 CCATCTGTTA GCCAGGAACA GATTCTCACC ATAAACTATG TTGGCACCTT GATCTTAAAC
4201 TTCCAGGCTC CAAAAGTGT AGAAAATGAA TTTCTGTTCC AAGCCTCTTA GATATGAAA
4261 AAAAGATTCT GTTGTTTAAG CCATCCAGTC TCTGGTATTT TGTATGGCA GCCTGAGTAG
4321 GCTAAGACAA TGAAGGATGT GGTAAAACCT TACGTCCCAA CCACATACCA AAGAGGCTGG
4381 AATTTAGCAT GCTTTCTTCT TTCAACTGTA GGCAATGTGC ACAAGTTCTA AATCCTAAGA
4441 CATGTTGGCT CCTTTACTCT GCCCAAATA CAACTCAAAC AAACAACGT AATATAATA
4501 CATCCAATGA AGTTCTGACA TTTCTTCAAC ATGAGTACAG TAATTCAATG CCAGAGAATT
4561 CATTTTATTT TGAAATCTAC ATGCCATATT CCAATTTCTG TTGAAGATGC AATGGTTATA
4621 TTTATTCTTT TTAATATAGA TTTATCAGAC TGGGCGCGGT GGCTCATACC TGTAATCCTA
4681 GCATTGAGA GGCTGAGGTG GGCATATCAC CTGAGGTCAG GAGTTTGAGA CCAGGCTGGC
4741 CAACATGGTG AAACCTGTC TCTACTATAA ATATAAAAT TAGCTGGGTG TGGTGGTGCA
4801 TGCCTGTAGT CCCAGTTACT AGGGAGGCTG AGGTAGAATT GCTTGAACCT GGGAGCAGGA
4861 GGTGCAATG AGTGGAATC GCACCACTG ACTCCAGCCT GGATGACAGA GCAAAATAAT
4921 AAATAAATAC ATAAATAGA TTTATCAGTT TATCAATAAT ATAGTTTCT TTTCTAGGTG
4981 TAAATATAGG TAATGACTGT CCTTTAGTAC ATTTTCTCAT GATGCTCCTC TTACTTGGTT
5041 TGGTACAATA TTAAGTATTG AAATAAAATA GAGAATCCTG TCGCTACACA TGAGCACTTA
5101 TTCCATTGTC TCATCTCAA TATGCACGGG AAATTCTCAA ATTGCTAATA ATCTTGTAAC
5161 ACACATGCAT TATATTCAAC AGGAATATAT AAATTTATAA TTATAATTTA GGATCAACAG
5221 ATGACAAACC TTTAGAAGGT TTGTATTAA CCTTAAATA TAATTTTTTA AAAATTGGTT
5281 ATAAATTTT TAATACTTTC TTTTTGTGA CCTCAAGGGG AAAATATAAT TCTTATAAAA
5341 GTTCAAATGA TTTACAGAAT ACAAAGAGTG AATAGAGATG ATGAATGAAT TAAAGGAAAG
5401 GATATTGCTA CATAGATTG GAAATTTAA AAGGGAAATT ACGATTGTTG ATTTTGTGTT
5461 AAAGTATCT GCTTTGTTCA AGATACCTTA TGTACCAAAA AATGATTTTA TCTCAGCCTC
5521 ATATCTCAGT AAATCTCTGA GACAACTTT AGTCCCTGGT GCCCAGGTGC CTTTGGTAAT
5581 TGGGAGACCT CTAGGTTTAG CATCTCATC CACTCGCCCC AATTTAAATA GTCCTCCCCA
5641 GGGCCATTCA GGCAAGGGAG ATGAAACTT GCTCAAGAGT TGGAAATCAA CTGAAGCTAC
5701 CGAAATTCAT TGCTCAATAG ATAATTTTCC CTGGAAGTAA CTAGGCTTT TGAATATAAT
5761 AGTGGGCATT TCAAAGTAGA AGGTAAAGTA TTTGGAGAT GAGGAGACAG GACAGAGCTA
5821 CGAGGAATGT CCTTGCTTA GGGACTAGGC TCTTAGCAGT ACCTCTTAGG TAAGAAGCTG
5881 TTAAGTGGCA CCTCTGTGT TTCTCTGAAG CTCCCTTTGC TTAGGGACTA GGCTCTTAGC
5941 AGTACCTCTT AGGTAAAGAC TGGTTAACTG ACACCTTCTA TGTGTCTGAA GCTCCCAGAA
6001 CAAAGTCCA GTGAAATTTG GATTTTGGTA ATATAGTTTC TTTTCTTTG TTACTTTTGG
6061 TTTGTTGTT TTTTTTTGAG AGTCTCACTC TCACTGCAAC CTCCCCCTCC TATATTCAAG
6121 TGATTCTCTT GCCTCAGCCT CCCGAGTAGC TGGGACTACA GGCCTGCACT AGCATGCCCA
6181 GCTAATTTTT GTATTTTTTA GTAGAGATGG GGTGTTTGT TTTTGTAGAC GGAGTTTCAC
6241 TTTGTGCCCC AGGCTGGAGT GCAGTGGCAC GATCTTGGCT CACTACAACC TCCACCTCCC
6301 GGGGTTCAAG TGATTCTTCT GCCTCAGTCT CCTGAGTAGC TGGGACTACA GGCCTTACA
6361 GGTGAACACC GCCACACCTG ACTAATTTGT GTAGTTTAT TAGAGATGGG GTTTCGCCAT
6421 GTTGGCCAGG CTGGTCTCAA ACTCTGACC TCAGGTGATC TACCCACCTC AGCCTCCCCA

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6481 AGTGCTGGGA TTACAGATGT GAGACACCAG ATCAGCCTCA GAAGACATTT TCTATTGGAA
6541 AGAGAAAACA CTATTAGCAA CCTATTAGTC TAATATTTAA TACTTAATGT CTTCTTAGT
6601 AATAAACCAA CTCTCTACAA CAAAGTGCTT CCTGGCTGCC TAAGTCATTG ATTCATTGAG
6661 TTCAACATTT TCTCAATGCC CAACAGCCAA GTGTCTCTTG TATGCCAAGT TCTATGCTGA
6721 TTATCAGTAT TTGAATAAGA GGGGGTCTAC ATCTTAAGTA CTGCTTAAGA TGAAAGCCTC
6781 TAGGTAAACA AACTTAACAC AATGTATCAT TCACTACTAA ATAGACCGAA TACAAAATCT
6841 TGTTATTGGA GCCCAGAGAG AAGAATTGAA ATTCAGTTT TCTCTCTCTC CTTTTCTCAC
6901 TCACCACAAT AAGTCAGTTG CACCAAGTCT TGTAGCTCTT TACTGAGCCA TGTTTTACCG
6961 TGTCCTTTTG TTTTATTGCG CACACCTTAA ATAAAAATG TACTGGCTTT TTTTCCCTGG
7021 GTTTACAGTA TTAATACATT GTCAAGATTT ACCTCTTCGT GTAGATTCCC TGGGGAAAAAT
7081 TACCTTTCCT CTTTCCCTTA AATTCTTCAG AGGTTAGAAA GCCATTAGTA ACATTCTGGT
7141 ATGTGGACAA AGTTTACCCA TTATGTATGG ATGTTTTACT CTTTCTATTT TTCTGACAAT
7201 AATCTCTTAA GGAGGTGTGG TTATAGAATA GTCAGCTGTT ATAAGTACTG TTTTCCCTGGC
7261 CTTACAACCT AAGTTCCTTA AGCTGTTTCT TAGTTTGCTC ATCTCAAAAT TCGGAATAAG
7321 GATAAACCT ATCTCTTAGA TTGTTGGATT AAATGAATTA ACATACTGGA AGCTCATGAA
7381 ATGTGCCTGG CACACAGTAG TGCCTAATAA ACCATCTCTC TTATTACAGCC TGTTTTCTGA
7441 TTTCAGAATC TACACTTGCT GAGCCAGGTT CTTTTCATTT CAAGGTGAGC AAAAGCATAC
7501 AAGGAAGAGA TGGAGGTAGG AAGAGATTAA GCCCTAGGCC AAGGTCACAC ACCGATTGGG
7561 AGCTGGAATC AAAGGCAATT TGGTCAAGTA ATAAAAAGGA TTCCAAGGCC CATAAGGCAA
7621 TTCTAACCTT AGGATCGAAA TTCTCGGACA TACAGGAAAT GCTGGGGGGG GAAAAATCCGG
7681 TCTTCTCAGC CCAAGAGCCA TGTGAAACCA GACCTTCAA TCTGATGATT CTCAGCCCAG
7741 CTGCCCATTG GAATCGTTGT AATTTAAAAA TACCCTCGGA AAATTCTAAT ATGTGGCTAT
7801 CAAAGGTGAT CATTGCTTTT TATGCCACTT TGTTTTCACC CAAATGGGAC ATCCAACCCT
7861 TTTCTTTTGA GAGTAGTTGT AGGGAAAGGA GGGGGTGGAG GGAGGGAAGA GCGGAAAAGG
7921 CTGGATCCGC CCTGAGCCGG TGTCAGTATC TGGGAAGTGG GAGGCGCGTC AGCAGTAAAC
7981 AGCTTCTGCT AGGATTATTA TCTCCTGCCA CACACTCGGA TTTGAAGGCT CCAAACGAAA
8041 CAATGCAAAA CGCTTCAGTG GAGTTCGAGA AGCGTTAGAC TAAACGACTG GGTCTGTTTG
8101 GCCAGTCTGA GCAGCTGGGC GCAGATGCAT AGGCAAGACT TAGCCCGCTC AGACTTTTCT
8161 GCCCACCTTA TTCCGATCAA AGCAGAAACC GGCCGGGCGC GGTGGCTCAC GCCTGTATC
8221 CCAGCACTTT GGTAGGCAGA GGCTGGCGGA TCACCTGAGG TCAGGAGTTC GAGACCAGCC
8281 CGGCTAACCT GGTGAAACTC CGTTTCTACT GGTGGCGGGC GCTTGTAATC CCATCTACTA
8341 GGGAGGCTGA GGCCGGAGAG TCGTCTGAAC CCGGGAGGCG GAGTTTGTAT GCAGTGAGCC
8401 GAGATCGCGC CACTGCATTC CAGCTTGGGC AACAGGAGCA AAACCTCCGT TCAAAAAAGC
8461 AAGCAAAACA AAAAAAAT GCAGAAACCG AGATCCGGAA GAAAACCTCG GCGAGATTCA
8521 CAGAATCCAG GAAAATAGGT CTCTAGAAAT TTGTCCATGG TCCCAGATCT CCATTTCTTG
8581 TGGGTGGGGC AGCTGTTACC AGATCCCTAG AAGCAAAGGT TTTTGGGG GACCGTGTCT
8641 CACTGTTGCC CAGGCTGGAG GGCAGTGGCA CGATCTCGGC TTACTACAAC CTCCGCCTCC
8701 CAGGCTCAAG CGACTCTCCT GCGTCAGCTT CAAGAGTAGC TGGGATTACA AGGTATGTGC
8761 CACCACGCCC AACTTATTTT TTTATTTATT ATTTTATTT AGTAGAGAGG TGTTCACCA
8821 TGTTGGCCAG GTTAGTGTG AAGTCGTGAC CTCAGGTGAT CAGCCCCCTC GGCCTCCCAA
8881 AGTGGTAGGA TTAGAGGGGT GAGCAGAAAG CAAAGGTTTT TGAGTGGCCA CAGGCCCCAC
8941 TCTATTTCTT TTTCTGCCTG TAATGGCAAC CTAGACGCTT GAGCTTCTTA AAATACAAGA
9001 GTAAGTTGCA TGTGAGGCAC CGTTCTACAT TAGGGACATT AGTCTGTTTT ACAGACACCT
9061 TTCAACTCCC TGGTTAACTT TTAGGTAATA TACTCTGCAC TTTAGCAGGA ATGGGACCTA
9121 TAACCTCAC AGAATTAGGA AAGTGAGGCT GCCTACAGCC TAAATTGAGA AAAAAATAGA
9181 CGGGGGACTA GTCGGAGGAC CAAACAAGGT TACCAACACG TTAGAGTTTT GCCTTCAATT
9241 TACATTTTAA AAGTAATCAC AACGAAGTGT TTAGATCACG AGGCATCCCT GCATGTAAAC
9301 TGTTAGGCAC TAACTATGGT CGATCTTACA AAGCATTAACT TAGAATATTT CTTTAGAGTA
9361 TGATAGTACG TAACTGACCT ACTATTACAT ACAAACAGAC CAACCTTTAG TAACAGCGCT
9421 CCCCCAAAAC CGAAAAGCAG TAATACGCTT TGCTCAAGGT TGGCATAAAA TTAACCTACC
9481 TTAGTGCCCT TTTTCTTCT ACCTACAAGC AGTGAGGTTA GCTCTTCTT TGAAACGGTA
9541 GGGGGGCTCT GAAAAGAGCC TTTGGGTTTG ATAGCGTTTC CGGGAGCTCA GATACCTGTC
9601 AAATCACTTG CCCTTGGCCT TGTGGTGACT CTCGGTCTTC TTAGGCAGAA GCACGGCCTG
9661 GATGTTAGGA AGGACGCCGC CCTGAGCAAT GGTCAACCCG CTTAGCAGTT TGTGAGCTC

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9721 CTCGTCGTTG CGGATGGCCA GCTGCAAGTG GCGCGGGATG ATGCGAGTCT TCTTGTGTGC
9781 GCGAGCCGCG TTGCCGGCCA GCTCCAGGAT CTCGGCGGTC AGGTACTCTA ACACCCCGCG
9841 CAGGTACACC GGCGCGCCTG CCCCAACCCG CTCTGCGTAG TTGCCCTTTAC GGAGCAGGCG
9901 GTGCACTCGG CCCACCGGGA ACTGGAGACC AGCGCGAGAA GAGCGGGATT TCGCTTTGGC
9961 GCGAGCTTTG CCTCCTTGCT TACCACGTCC AGACATTGCA ATCAGACAAA AATCACCAAA
10021 ACCAGCGGCC TAAGCTCACG AGAAAACAAA CAAAATCAAG AAATATGTAA AACATGGCCG
10081 CTTTTATAGG TAGTTCCTGG GGAGTAAATC CGACTTTTTG ATTGGTCGGT AGCAAATGCT
10141 AGTCAGATAG CCAATAGAAA AGCTGTACTT TCATACCTCA TTGTCATAGC TCTGCCACG
10201 GATGACAACT GTGCAGTTTG TCTTCCAATT AACTAAGAGG TACTCTCCAT CCTCTATTAG
10261 CATAAAAGCC CTATAAGTAG CAGAAATCCG CTCTTTACTT TCGACACATT TCTGGTGTTC
10321 TAAGATGCCT GAGCCAGCCA AGTCTGCTCC CGCCCCGAAG AAGGGCTCCA AGAAGGCAGT
10381 GACCAAAGCG CAGAAGAAAG ATGGCAAGAA GCGCAAGCGC AGCCGCAAGG AGAGTTACTC
10441 TGTGTACGTG TACAAGGTGC TGAAACAGGT CCATCCCGAC ACTGGCATCT CTTCCAAGGC
10501 CATGGGCATC ATGAATTCTT TCGTTAACGA CATATTGAG CGCATCGCGG GCGAGGCTTC
10561 CCGCCTGGCG CATTACAACA AGCGCTCGAC CATCACCTCC AGGGAGATCC AGACGGCCGT
10621 GCGCCTGCTG CTTCCCGGAG AGCTGGCCAA GCACGCCGTG TCGGAGGGCA CCAAGGCCGT
10681 CACCAAGTAC ACCAGTCCA AGTAAACATT CCAAGTAAGC GTCTTAACAC CTAACCCCAA
10741 AGGCTCTTTT AAGAGCCACC CAGATACCCA CTAAAAGAGC TGTGGCCAGA CGCCAAATTT
10801 TATTTGGCGG CGGAGGGGTA TTAGAATATA GGAAGTGGAG AGGGGTGGGG ACAAGTGTTC
10861 CAGCTTAGAG AGGGACAAAG GGTCCTGAAC CCGAAAGAAG CCAGCCATTA AAAATGGCTT
10921 TGGGGTCAAT TCGTTGTGCT TAAATTTAAA ATGGAGACAA GCGGCCATTT TGCTAACTCG
10981 GCGTCCCCGG AAGAAACCGC AGGCTCGCTT AGGTTTCAGA CCCAGCTGTC TGTCCCTGTC
11041 TACGTCGCCA GGATCAACGG TTGCCGTAAT GTCATAATTT CGCCACCAGC TTCTAGCCAA
11101 TAGGCTGTCC TGTCATTTTA AATATTAAC AATCGAGGGA AAGCTGTTTT GAGACTCTGA
11161 TTTACATAGC GGACCGGAGT GGGAACTGG GCAGTAACTG CCTAAGGAAG GACTCCCCCT
11221 CTGTTTTCTG GCGGCACACC TTCGTAGTAT ACTGAAGGGT GTGTCTCCTG GGTTCCTAAC
11281 TGCCCCGGTA ATAGTCTTTT AACCTAATAT GCGTCAGTTT TGATAACAAC ACTAAGGCAG
11341 TACAGAATA AAGATGTAAG CACTGCGCCA GATGTTGCTT CATACTCTT ATTCTATTCA
11401 ACTGGTTTAT TCAAGATTCA AATCAAATCA AATTTTGCTT GAATCCCAGT GCTCAGTCAG
11461 CCATAAATGG TGTGTTGCCT GATTGAAACT TAAATCTCC GTAGGGGGCT TGTAACATGC
11521 AGACAAGTTT GAAAGTTGCT TTAGGAGAAG CCAACTCTTA ACTGCTGGGT AAATTGACAA
11581 GCCTTCGAAC ACTGAACTGA AGGCCAGTAA GGACTAGGCG CTGGGTGGGG GAGAATGAAG
11641 AGGAGACGTC ATTAACCTTA GCACATACAC TGTATCTCCT AGAGGACTCT CCCTTCCTAG
11701 ACAACTGCAG GCCGCTTTGT GGCCTGGGAA ATTCCACATT CCCTTAAGTA TTTTACTCAT
11761 GGTCTTTTCC AGGTAAAGAT TTTAAGATGA AGGGTTAGAC GTAGTCTACC TATCTTTTAA
11821 TTCAAGTCTA GAACACGTTT TTAGCACCTA GAAGTTTGCT TTCTCCATTA AAAACCGGGA
11881 ATATACAATA AATAAAATTA GTGTTAAAGC AGATTTTAC AACTTTAAAT ACCATGTAAT
11941 TTAGGTTACA GTTATTTAAC ATAAGGACTG TGTGATCTTA AATCTGCAAT TTCTTTCACA
12001 CCTGGGAAAT AACTAAGGC CTGTCTTTGG TGCCAGACAA GGCCTTATAC TTGAACACTG
12061 CTGTGCAATC ACAGGCTGCC TTGCCTAGAT AACTTATCTG AGAAATTCTG ATGAGAAATG
12121 AAATTTCCAG AGTCCCTCAC AAGTAAATTT TTTTTTCTTT TTTTTTTTTT TTTTGGAGAC
12181 GAAGTTTCTC TCTGTTTTCC CAGGCTGGAG TGCAATGGCG CGATCTTGGC TCACAGCAAC
12241 CTCCGCCTCC CGGGTTCAAG CCATTCTCCT GCCTCAGCCT CCGGAGTAGC TGGGATTACA
12301 GGCATGCGCC ACGACACCCT GGCTAATTTT GTATTTTATG TAGAGACGAG GTTCTCTCAT
12361 GTCGGTCAGG CTGGTCTCGA ACTCCGGACA TCAGGTGATC TGCCCGCCTT GGCTCCCAA
12421 AGTCCTGGAT TACAGGCTTG AGCCACCGCG CCGGGCCTAA ATGGTTTTTT TTTTTCTAT
12481 GCCTCTAATG GACCTGGTCA CTTATTCCCA TTCAGACTGA CCGCTCTCCT ACCTGCCAAC
12541 TAACTAATCA GTGTAACCAA AATCTGCAAA CAAAATTCAG TATTCTTTCC CCGCCTTTTC
12601 CCCTTTCTCT TACATAGATT ATGTTTTTGC CTGTGTTAGA TGAAATAATT CTATTGCTTG
12661 TTCTCTCTTC TGTACAAGTA CCCAGTAAGC AAATTATTAA CTCTTGGTC ATTTATTTCT
12721 GAATTTTCCA CCAAGACAGT GTTTATGTGA GTCATACAA AAGAACCAAC AGAAATGTGT
12781 GTCTTGGAAG CAGGTTGTCT ATCCCTGGAC CTTTGAGTT TTCTGTTTAC TTCTCTTTGG
12841 CTTTTGCATG CTAAAAGTTT ATCGTCCGCG TTTGTTTGT TGGTTATTTC TAATTGGACT
12901 TGGCTGATTG GTTGCATATT GGTGGCAGTA GTAGAATTTG AATTCTGGTT TTCTGGTCAC

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12961 ATCATTAAGT GATTAGTCAG TGGAGAGGAC AGGAAATCTG GTTTATTTAT TAACCTTTTT
13021 TTGGGGTGTT TTTGTTTGAA GATGTTGATA TTCTCTGTGA GGACACAGGG TTAGAGTTGG
13081 TGTTCCTTCTT TCTGACTTTA CATGGGATTT GATGTTTGT GCTTGTATGC CTCTTCCAC
13141 CTCCAAAAC TTGTCTTTT TGAGTCCAAA TAGTTGTGA TATCTGCAA ACCAGTATTC
13201 CTGTGTTAAG ATGATATGAA TATAAATGG CTGCCCTGTT ATAACCTTTG ACTTTAAGAA
13261 AGTGTTAGGA CTAACAGGAG AAAAAAGGA AATCAAGGAA ACCGAATGTC TGGTCTCAAT
13321 AACTGCTATG GCAGAGGCTC TACAGCTTAT TATTAATTTT AGTAATTTCA CATTATTGCC
13381 CCTTCACGTT CTTAAGTAA GGTAGAGGA CAGAAGAAAC ATAATGTTGT TACAAATTGG
13441 ACTATTGAGT CAGGGAAAAA AAAGAGTGCT TTCAATATCT GAATAAAACA AAGATTTAAT
13501 ATTTTCTAAA CCTTAACGAG TTTATTGTAA GGGATGTGAT GCTGGAAACT AGGAACTAG
13561 AATTTTCTTC TAAACTGAGA ATCAGAATTA TTCATATTCT CAGCAGTGGT GCCACCTGAG
13621 GGACTTCTGA TCTTAATTAC ATACTTTTAT TTCTTTAACT GATCAACATG CTAAATAGAT
13681 AACCTATGGC TCTGTTTTTA CCCACTTTAA ATTCTGTTCT ATTAGCACGG TTAGCTTTCC
13741 TAATTGGCAA TAAGATTGAG ACTATCTTTT TTTTTTTTTT GAGACAGAAT TTTGCTCTGT
13801 GGCCCAGGCT GGGGTGCAGT GGCACAATCT CGGCTCACTG CAACCTCTGC CTCCAGGGTT
13861 CTAGCAATT TCCTGCCTCA GCCTCCCCAG TAGCTGGGAT TACAGGTGCA CCACCACGCC
13921 TGGCTAATTT GTGCATTTT AGTAGAGATG GGGTTTCGCC ATGTTGGCCA AACTGGTCTC
13981 GAATCAGGT GATCCACCTC GGCTCCCCAA AGTGATGAGA TTACAGGCGT GAGCCACCGT
14041 GCCCAGAAAA GACTATCTTA TTTTATGAAT TTAAATAATT GTGAAATTAT CCACTTAAGG
14101 GAATTAATAA ATTATAATGT AATCTTAAAT TTTAGTTGGC TTACATAAAG ACTTAAATA
14161 CATCAATTTA AATAAAAACT CATTGTCTA AAAAAAATC AAAAATTTTC CTGTGCTTT
14221 AAATGTGCTA CCTCTTTAAG TTCTAATTAA GAGAAAAAA GTTTAACTGT GAGTTTCATT
14281 AGTGGTCTTA GTTAACAGCT TAAAGTATTT TGTAAAAAA ATACTTCACA ATTTTAAAT
14341 AACTTAAAA TATTAATACC TCTTTTATTA GGTTTTTTTA ATAAGGAAAA TATATAATAC
14401 ATCTAATCAA GATTTTTTTT GGACAAATTG GCTTAATAAT TTCATTTTAA AAATGGCTTC
14461 TTTATTCTTA TACTGTAAAA ATAATATTAG CAGAATATTA TAGTATACAC AAGTTTAGGG
14521 TTCATATTCT AAAAAACAAA AACAAAAGCT AATTTAACTT GCATTTACTA AATTTCTTCC
14581 ACTAGTTGTA CTGGTTACAT GAGTTAACAT CACTTTATTT ATTATTCTAA AATTGTAAAT
14641 TATTCAATGA ACCAAATTAA ATGATAATAG ATAATGTCTT TTTTAAAAAT GGAATTAAAT
14701 TTTATGTAC TAATTATAAG GATTCAATGT GTGAGCTTAA GTACTGAGTT CACAGTGTAT
14761 GATAACTTTA AGAATTTAGG TGAATATTAT TAAATTGAGT AAATTAATTC TCAATCTTTG
14821 GATACCTGGA CAATTTCTAA ATTTGGAGGT ACAAATACA AATCACAAGA AACAGTGTAG
14881 TTTTATGCAA ATAACATTTT TACACAGTTT AGAATAACCA TTGATAACA GATAAGAGAA
14941 CATATGATTG CCTTAGAATA GATACTGTTG CTTTCGCCAC TTTAGATTG TAAATCACGT
15001 ACTGTATACG TGTGGGCGTA GAGGACCATG CAGGTTTTGG ATGACTGCCT CTGTTTTCGT
15061 CATGCCATG CGGGAACACA ATTGCTGTCT TTGTTTAAAG GCTATGGTTA ATCCAAACAG
15121 CTCTGACTCT ATCAAGTACT ATAGCTACAG AGAAACACAA GTAAGCATTC GAGATAATGA
15181 CTACCTTGAG CCTTTACTTA TTTAAAAAGT TGTACTGTT TGTAAATGTG GTACATTCAA
15241 TTTACTATGG ATTGTCACTC TAAATAAGA CTTCAATCTT TTTCTTATTT TTATATAGCC
15301 ATGATTTATA TTCATATCTT AATGTAATAA CCAATCTTCT CTGACAACAT TATAACAATG
15361 CTGGAACCTC CATTTTCAGT ACTTCAACA ACAAATACTG CTTTATACT TCAGAGCAGA
15421 TGGATATGTG CTTCCCAGTG TAAACACATT TGGAATCTCA CTGAGAAATA CACTATCACT
15481 AAAAAATACAG TTCTGAGATT CATTAAAAGA CCTCCAGAAT TCTGGAAGTA GGAAGTTTCC
15541 TCTTCAAAGT CTACAGAGGA AGATGAGGTC TGAAATAGAC AGCTTCTTCC TTCTTTTACC
15601 TGTGGTATTA TTCTGTTTTG TCCTTTTCTC CATTATCTGT CTTTCCAGTG ATGAAATTTT
15661 GATCTGGCCC TCCCAAGTAT TAAAAACAA GCAAATAAAC AAATCTCAGT TATATTTTAC
15721 TAAGATATTG GCATGCTAAC TTTTGCAGG TTTGTAACAA GGACCTTTAT AACTTGACTA
15781 AAAGTTCCTA AATAAGAATA TTTACTAGAA AATTTATTTT TGCTGTGGC CCACATTTGA
15841 GTCAAAATAA TCAATTAGGA AAAATGAAC TGTTTAACTA AAGTTGACCA AACTGATCTT
15901 TGACCAAAT GATCTTTGAG ACCTATTCAT CTAAGACAAG CCAATTAAAT TCTTGAGAC
15961 AATTTGTACT TTAAGGAATT CTTATAATAT TTGTAATTAC CCTCATAACT TTTTTTTTGG
16021 CCTACTTCT GTGCTTCTCT AATATGCAGA TTATTAAATG TTGTTACAAA GCCATTGTCA
16081 AAAAAACAAA AAACAAAAA CTAACAAAC TCACATGGTT AGACTTGCTC CTTTATGAGA
16141 TATTTTTACC AAAAATGGAG GAGTTGAAAA ACTCTGGTGC CAGAAATCGT GAAGACATGG

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16201 CCTACCTAAC ATGGAAATGT TGGTTGTGAG TGGAAAATAC TACACAGAGA TAGCCATAGT
16261 GCTGCACAGC CAATCTTAAG TGTTTCTAGA GAATCACTAA TTGTTTCTAG AGAATCACTA
16321 ATTGTTTTCT TTTAACATTC TTGGTTTATA CAAGAAGAGA GTATCCATAC TAAACTCTTT
16381 TCTACTGAAA ATAATGTGCA AACATAACAT CCTATTCTTA GACAGTTTGT AGTTTTTTTC
16441 TCCCATTCT ATTTTATAAA TCATCTTTTT AAAATACTTT GTTGAGTGAA ATCAGTCCAT
16501 TGCTTGATAT ACCTTGAGCA CAAGTAAATA GTATGCCAAA AATAAATGT CTTTCAGTCA
16561 CAGTTTGACA AACTCAACTA CCCTGAGCCT ATAGAGTGGT AATAATTGCC CTACTCATAA
16621 AGATGGGGTG AAGATTAAAT GAAATAGCAC CTATAGAACA CTAGTTCCAG ACGTGGTATC
16681 ATGCTAGTAA AATGGCTGCA CAGCACTGCT CAATGATGAC AAAAAGTGAA GCTTCTGGAG
16741 ACAGACTCCA AGTTTGACTC CCAGATCACC ACATATAAGA TGTGGGACTC TGAGGCAGGT
16801 CATTTAATCT CTCTGTGCAT TAGTATCCTT CTCTATACCT TTACAGTGAT GGTAAATAGCA
16861 CCTACCTTCT AGAAGTATGT GAAGATTAAA GATCCTTAAT GCATATAAAC CACTGTGTTT
16921 ACTGCTGTTT GACAAATTTT ATTTATAACC ATCTTTACGC TCCTAAAAGG ACTTGAAGCA
16981 GCTTATGACT GAAGACTTTG GTAGGAGTTG GCCTTCTATA AATTATAAGA ATTTCATAAA
17041 TTATTTGATA TGAAAATGCC AGTTGATCAT AGTATGTTTA CCGGGTCCA ACAGTTGAG
17101 AAAAAATACA CTTTTTTTCC CTGAACATAT GAAATTAGCT CTCTAGGCAT ATTCCTAAGG
17161 ACTTAAAGAA TGATAACTAT CATTTCTCTT AAATCTTCCA GATTTGGAAG GATATATATA
17221 TTCAGCACAT TGACAGACAA TCCCAGTAGT CCTAAATTAA AAGACATTAA AAATTAGTGA
17281 AACTTTTCCT ACCTTTAGCC TGTGTAATCC TGGATGACCA AGCATAAAAT TAAATTGAGT
17341 AGAGTATACC ACTGTAACAT TTCCTGAAAG GTATTCTAGG CTCTGAGTAA TTCTTTGGG
17401 GTCTGAAGAT CAGTTTGACA TATCCTCAAG TATCATGAGT TCATTATAAT TAAGAAAAAG
17461 AGAGTAAATC TGGAGAATGA GCCACTTTCT TACTACTCCT TGACCTCAGT TCTTTTTTTC
17521 AGAGACAGGG TCTCACTTTG TTGCCAGGC TGCCAGGCTG GAGTGTAGTG GCGCAATCGC
17581 ATCTCATTGT AACCTCCACC TTCTGGGCTG AAGCCATCCT CCTGCCTCAG CATCCTGAGT
17641 ATCTGGAACC ACAGCAGGTG CACACCACCA TGCCAAGCTA ATTTTTTAAA AAGTTTTTTG
17701 TAGAGATGGG GTCTTACTAT GTTGTGGGA CTGGTCTCAA ACTCCTGGGC TTAAGTGATC
17761 CTCCTGCCTC AGCCTCCCAA ATTGTTGGGA TTACTAGTGT GAGTCACTGT ACCCCGCCCC
17821 ACTTCAGTTC TGAGGAGGAA AAAATATGTA ATAATAATGG GACTTTGGTT TGCTGATTTA
17881 AAGATTCATG TAACCTTATC ATCCAATGCG CAATTTGTAG AATAATTAAT AGAGACATCT
17941 GGTCTCATGT TTCTACAGT GCTCATGCCT TGATAGTAGA TCTCCTTGCT GCTGGCTCAG
18001 AAGGGTAAAA GAGCAGAAAT GATGGGGCTT CTCTCATTCT ATGAGGAAAT AGACCTATGT
18061 AGAGGAGGCT ACCTGTGGTA AAACCTTATC CTCATCACTT AAAATTCTAG GCTTATTCTC
18121 TGACCATATC AAGTTTTCAA ATGGTAAAAG AATTGGATTC AAGAGAAATA TGAATAAACT
18181 TTTGTTTTCA CTTTTCTCCC TCCTCTCCCC CCATTCTCCC TTCCTTTATT TTCTTGCTCT
18241 TAGTTTTCTT TTCACTTTTT TGCTACTAT TATTTGCCCA AACTCACTG TAGGCTAGAA
18301 CAAAAAATAA TTGAAAATTA AAATGTGCCC CTTTTGTTGT TAGACTTGCT TAAACAATTG
18361 GGGTAATGAA CCTTGGACAC TAGATTTTAA AACACACACA TTTGAGCTTC AGTGCATGA
18421 AATAAATATA TTTTAAACAA TTAATAAATA AAATTGCATG TTTAAAAAAT CTGCAGAGAA
18481 CAATACACGT TGTGAGATCT TGAATGGAAG GAAAACCTGCT AGCCTCAAGA GTGGATCAAA
18541 GATGCTCAGC AGGCAACAGA GTAAGAGCAT GTTGGAGGGT TTAGAGAGTG TGCTCAGGGT
18601 TCTAGGCTCT AAAAAACAGA CAGTCCCCAC GGCCTGGCCT TCGTCTGTGT ATCTTCTTTA
18661 TGAAAAACAC TAAGTCTTTT TCCTCACTGG ATAAATTTTT ATCCTTCAAG TTTAGATCAA
18721 ATGGAACTTT AGGACACTGA CTAGGTATCA TTCATCTTTT AAGAGCGTAC AGACATTCAA
18781 GGGCTAGAGG ATGTGGGTTT ACTGCACAGG CTCATTATCC AACAGCTGTG CTACCTGGGA
18841 AACTTAACCT CTCTGTGCCT TAATTTCTCT ATCTATAACG CAGGGAGAAT GACAGTAGGT
18901 ATCTCATAAG GTTGTGGGAA CAACTAAATG CATTGGTATC TATTGTGTAA AGTGCTTAAA
18961 AACTGCCTG GCACAGAGCA AACATCCAGT GAACCTTAGC CATCATCATT ATCATTTGTT
19021 TCAGAGTCAA ATACAATATC TCATATCTGA TAAATTACAG AAGTGAATCA ATCACTCTCT
19081 CTCTTTTCTC CAGGGGGAGA CAACAGCTTT TAGACATATC TTTTCCAACA GTCGTCAGT
19141 CTGGACACTG TTTTCATCTG CAAATAAACC AATGAAAATG AGTGATCCTA GAAGAAGATA
19201 AATGGAGGTA TTTTGAACAA TCAAGAAGG ACAAATGAAC ACCTGGCTGA GAAAAATTAG
19261 CTCTTTTTTC TATGCATAAA ACTATTAAAA TATTTCTCAT AGAAATTTAT GACACAGGAA
19321 ACATAAAGAC AAAATTAAAA TAACCTCTAG TATCTCCTAT TCTTTTTATA TGTATATTAT
19381 ATATACTCAT ATTCATATAT ACATATATCT CACATCATGT ATCATATATA AAATAAATTT

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19441 AGGTGTCATG ATATATATTT AGATAAATAT ACTTAGAAAC TTTTATATGG ATGTATAATT
19501 TATGGATATA TTGATAATTA TGTATTTGTT ATTGACTACT TCAATTGATT CCCATTTTAA
19561 TGCATTATAT TATAGATTAT ATAGCTCACA CATCTTTGTA CATAAATCTT TGTTCAAATA
19621 TTATTTCTTA AGGATAGACT TCATGAAGTG GAAATACTAA ATCAAAAGTG AAAAACATTT
19681 TCTAAGGTTT TTAACATATA CATTGCCAAA TTGCTATTCA GGATCATACC AATTTATAAT
19741 CCCAAAATAA TATGGAAATT CCTGTTTTAT AGCACTCATA TTTACAATAA ATTTTAAAAA
19801 TCACTGTTAA CCTAATAGTC CTTCAAAAGA AAAAAAATT GAAATTACAT TATTTTAAATG
19861 ACTCTATTAG TGAGGGTCAT TCTTCCCATG TTTCTTGTTA GCCATGACCC TATAAGAAAT
19921 AAAGTGCATC GCAAAATGAT AAACATGACA TCAATCATTG CATGGGAAGG CACTATATAA
19981 AGAATAATAC CTTAGGTTAA GGCCACATAA ATATTTATCA GGTGCTTTT CTGCGGAGGA
20041 CTCTGAAGGG ATACTAAACT GCATTTAGCT GCATGCAACT GAAACTACTT TTACCTACAT
20101 TGTCTCTTAT AAACATTATA ACTACTCTTT GAGAAAGTGT TTACTATGGA CTGAATTGTC
20161 TCCCCATCCC CCCAAATTCA TATATTGAAG CCATAAACCC CAATATGACT CTATTCCTAG
20221 ACAGGACTTA TAAGAGGTAA TTAAGGTTAA ATGAGGTCAT TAGGATGGGT TCCTAACTGG
20281 ATAGGATTGG TGGCCTTATA AGAAGAGGAA GATTCTGCAC TTGGTCTTCC AAATTAAATA
20341 ATTTATTTAA AAGAAAAAAA AGAGAGGGAG AGAGAGGGAG CTCTGCACAT ATACTGAGGA
20401 AAGGCTATGT GAGCTCTCAC AGTGAGAAGG TAGCACTCTA CAAGCCAGCA AGAGAGCCCT
20461 CAACAGAATC CAGCCATGCT ATACCCTGCT CTGAGACTTC CAGCCTCCAG AACTGTGATA
20521 AAATTTTGTG GTTTAAACCA CACAATCTAT GGTATTTTTT TATGGCAGCC CAAGCCAACA
20581 AAGACAGCAT CATTGCTGTC ACTTACAGAC AAGAAAACTA AGACTAGGAG AGAGAAAAGT
20641 TAAACTTGTC CAAGGTCACA AAAGCCAGAA ACAAGTGAGG TGAGAAGTTG ACCTTGTTCT
20701 CCTCAATCCA AGGCCAGGAC TCCTCCACTC CACATGTAGA TAGCCACCTC ACAGTCAACA
20761 GCCAAATGTC CACACCCAG AGTCAGCAAT AGACCAAGAT GTCTTACCAG GAGACAAATG
20821 CCTCATCTTG AATAAATATG ATCTAACAACT TACCCATGT AAAACATTGA ATCTCATGAG
20881 AAACAAAAAT GCAAAGTATG TAGAAAACTA TGTTTACCAC TTAAGTACA GTGATAAAAA
20941 GCTTAATGAT ATCCTTATAG TCTTGGAGGG GTTTGTATAT GTGGTGAAAC AGGTGCTCAC
21001 GCACTGCTGA TAGACTGTAA ATTGGTCTTA GAGAGAAAAA TAAATAAACT GGAAGGAGAT
21061 ATGCTGTATG TTTACTTTTT TTATGGAAC ATATGATATA CCTGGAAAT CGATTGACCA
21121 TGCATCTATT TCTTCAATGG GTATGCACAG TTGAGCTGTT CCCATGCACC AGGCACTGTA
21181 ATGGGACAAAC TGCACATGAC AGTCAAAAAT CTCAGTCTCA TGAAGTCGAC ATGCTCATGG
21241 AGAGGTGCTA CCCACTAAAC TAATATTTGT ATATCAATTA TGGATACATT GGGCCACATT
21301 TACAGAAATT CACTTACAGT GGGTTACCAG AAGGGATTTT TTTTCTTGAT TGGCAAGAAG
21361 GCTAGGCTGT TTTGTTGGGG GCTGGCAGGA GCTGTCTAGG CTGCCCAAGT ATGCAGGTCT
21421 CTTCTATCAT CCTGTGTTAA CCATCTTCCA TGTATCTTTC AACCTCATGG TCATCTGCAG
21481 CATGTCTAGG GGTCAATCTT ATGTTCCATG CAGGAAAAAA GGGTAAAGGG AAAGGGAAGT
21541 AGGCATGTAC CATTTTAAATG CACACCTTGG TTTTCAGAAA ATTTAAGAA AGAAGCTTTC
21601 TGCTTTTCTC TGACTATTCT GTATTCTGGA TTACAACGCA ACAGAAAAGT CACCTTAAAT
21661 TCTAATGTTT TTCTCTCCTT GCTTTCAAAA ACTGACTCAT TAACCTCCAC GTGGCTTGGA
21721 AAAATTATTT CAGTCATCCA GTAATGAGCT GTTCATAGAA ATGTTTTGGA CATCAAGTCT
21781 GTGTTGTTAG CATTATACAT GTTAAGCATT GAATAAAAAA CAACATGATG TGGGTAAATT
21841 TCTTTACTTA CATATAAGTA CTTATATACT TATAGCTGAA AAGAGAGGTT GAAATGTCAG
21901 GTGGAACAGA AATAAGATTA CCTAGATGTT TCTCCTATGG GTGATTTTCA GCTATGCTGA
21961 TCTTCTTCTT GGGTCAGGTA CTCCAGAAAC TTCCTAATTA AATGGTGGCC CTGATCTTAG
22021 TTCTCTCTC CTCTTAGACA TTTTCAGGA CTACAGAAGA TGTGCAGTTT ATAAATGAGT
22081 AGCAGAAACC TACTGAACAA ATTATTCAGG CTCATCTGAA CAGAGAGGAC ACCTTCTCTG
22141 CTATACTCTC TCAGTGATTT CCCTGCCTTG GGGTCAATTA TTGCTTGGA CATTGATTTA
22201 AGCACATAAT AATTGTTGTC ATTGCTTATG TTTGGATTTC ATCTCCCAA ATAGATGGTA
22261 AATTCTTTAG TTTAGAGACC AAGTAATACT TAAAAAATA TTTTGTGTGT GTGTGTGTGT
22321 TTTTCTGTG TCTCTCAGCC CTGTAATAGC ATCGTACTTA CACTTGTTAG ATTTTATAGAG
22381 ACACTTTTA CAAACATGG AATTATCTAC ATACCCTTTC TACAAAACAG ACAAAATAAA
22441 TACTCAGTAG TTGAACCAA AAAAGCAGTT CAAATAAAAT ACTTGAAAT GAAGAAATCA
22501 TTTGAACAGA GTTAAAGTTA ATCGTAAAT AATGTCTGTA AAAATTATTG CCAATCAAAAT
22561 ATAAAGTTCA AAAATAGTGC TTGAAAAAGG AAGAATCATA TGAAAAGGGA CTACTCATTT
22621 TAAAAATGTT AGATATCAGG AAAAGCCAAG AAGTGAGTAT GGTAAGAGTG CTGTCAAGTG

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22681 AAACCCCTGCT AATCTCACTG AACATGTAAA AATCTGTAGA TGCCTTTATT TTATTCACTC
22741 ACACACATAT GTAGAAAGAG AAATATATGG TAAACATTAA AAAAACCAAA TTAGAATGTA
22801 AAATTAATAC TTTAAAAAAT GGGCTGTATA CTTTCTTAT CACCGGAGAT AAGAAATTAT
22861 TATTTTTTAA ATAAAGTTAT TTTCTCTGTG ACTGTTTCCA TGACTTTGCT ACTTAGAAGT
22921 TAGAGATGCC AAAGTTTATC TAAGAAAATG TTTATGGAAA TATTATTTCA ATAATGAATG
22981 TTTAGAAGAC TGAATTTCTT GACTGGGCGC AGTGGCTCAT GCCTGTAATC CCAGCACTTT
23041 GAGAGGCTGA AGAAGGAGGA TCGCTTGAGT CCGGGAGTTC AAGAGCATCC TGGGCAACAC
23101 AGCGAGACCC TGCAGCAAAG TAAAAAGAAA AAAGAATTGA AAAAGGAAGA CTGAATTTCC
23161 TTTGGGCAAG TCATGTGACA TTCCTGTGCC TCAGTTTCTT CATCTATAAA GTTAATTCCT
23221 ACATTTTTTG GGAAGGGAGA GAAAAACTTA GGATAGTGAC TGGCACAGAA GAAGCACTAT
23281 ATACTATATA TATGTGGATA TCATTTGTTT TTATGGTACC ATTTTAGCTA TCTAATGCAA
23341 AATATGAATC TTTTTTTTCT GGGTCTTAA TTTATGGAATG TAAGAATTTT CTAAATTCCT
23401 TAATTCTGTG TTAGTTTTAA AGCAATGGAG TAACGTATCT GTCAACTTGT AAATATAAGG
23461 ATCAACCTGA TCCACAATTT GACCCCTAGC CACTAATATT TAATAGTACA ACACCTAGAA
23521 ATTATCAAAG GTCAGAGAAG CCAAACAAAT GTAAAAACAT ACAGGTGCTC AGAAAGATGC
23581 ACCTGTAATC TCTCTAAGGA GAAATATTTT CCAAACTGAG TGACACGGTG CTTTAGTGAG
23641 TTGTGGAATC AATCTCATGA TTTCCAACCT AGTGTTCTTT TAAAAATGAA CTAGTCCACA
23701 GTAGAATATA CTAAAGTGCT GGTGCTTAAG ATAGTATTGT TTTCTGGAAA AAAAAAAAAA
23761 ATTTTTTTTT TTTGAGACAG GGTCTCGCTC TTGCCCAGGC TGAAGTGCAG TGGCACAATC
23821 ATGCTCACTG CAGCCTTGAC CTCCTGGGCC CAAGTGATT CCCCACCTCA GCCTTTTGAG
23881 TAACTGGGAC CACAGGTACG TGCCACCACA CCGGGTAAT TTTTAAATTG TAGAGACAGG
23941 GTCTTGCTAT GTGCTTAGGC TGGCCTTG TGACTCTGGG CTCTAGTGAT CCACTAGCCT
24001 CAGCCTCCCA AATTTATGGG ATTATAGGCA TGAGCCACCC TACCTGGCCT GTTCCCTGAA
24061 TTTTTTTTTT TTTCAGGTGT TTGTGCATAT GTGTGTGTGT ATGGGTATAA CAGAGAGACA
24121 GAGAGAAAGA AACTTTTCTA TCTCACTTTG CAATCAGAAG TTTGAAGTCT TATCTTTTGG
24181 CTTTTGTTTC AGAAATATTT CAAATGTAGA CTCTCTCCTT TACCACACTG TCCCCTTAGG
24241 CAAGGTCTTT GCCATTCTTC TGAGACTATT GCAACAGACT CCCAATTCT GACTGTGGGC
24301 CCTTCTCAA AATGATTGTT TATGCAATAA ATCTAAACCC AAGACAATA CAACAATACA
24361 ACAAATCTC TGCTTAAAAA CTTCCAATGT CTGCCGGGCG CGGCGGCTCA CGCATGTATT
24421 CCCAGCACTT TGGAGGCAGA GCGGGGCAGA TCACCTGAGG TGGGGAGTTC GAGACTAGCC
24481 TGGCCAACAT GATGAAACCC CATCTCTACT AAAAATACAA AAAATTAGCC AGGCATGGTG
24541 GTGGGCGCCT ATAATCCAG CTAATTGGGA GGCTGAGGCA GGAGAAATGC CTGAACCTGG
24601 GAGGTGGAGG TTGCACTGAG CCAAGATCAC ACCATTGCAC TCCAGCCTGG GCAACAAGAG
24661 CAAACTCTG TCTCAAACCA AACCAAAACA AAACCTCTAA TATCTACCAA ATGTTTACAA
24721 CAAGTATTTG GGGATCTTCA CAAATGGCCC TTATGGAGTT TTCCTTTGCT GAGACCCTAT
24781 GCTCTGGCCA CACTAACTC ATTCAAGCAT CCAGAAAGGC CTCAGCCTTT GTGAGCAAGC
24841 TCTTATCTCC AGGCCTCTCA CAAAGACCTG TTCCAGTAGA AGCTCAGGGG AGCAGACTGG
24901 ACATTATTCC AACAAACCTT TCCCCACAGC TATGCAGCCA AATCTGCCAG CTCAGTTAAT
24961 TAATTAAGCA ATTCAGAGAT GAGGGTCTGC CCAGGCTGGA GTGCAGTAGC TGCGACCTCA
25021 AGCTCCTGGG CTCTAAGTGA TCCTCTTCAG TCTACCCAGA AGCTGGGACT GCAGGCATGT
25081 GCCACCACAC CCAGCTAATT TTTTTTTTTT TCAGTAGGGA CCAGGCCAAC CTAGTCTTGA
25141 ACTCCTGGCC TCCAGCCTTC CGAAGTGCTG TAATTACAGG CATGAATCAC TGCGCCACAGC
25201 CAACCCGCCC AGTCTTGTTA GACATGGGGT CTGTAGTTTC TAGTAGGTTT TTGAGTCTAG
25261 GGTTCCTACC TCATGTTTTA TAGTTAATTT AGGGGAGGGA CTGTGTCTGT TTATCTGGGG
25321 ATGTAGGGGT GGGCAGGGGG ATAGAGGGGA CTTCAATTAA TGAAACCAGA AGCAAACTC
25381 AGTTGAGGAC ACCGGTCATG AGAGTGGCCT GATTATGGCC AATCTTACAT AATGTGTGAG
25441 ATCTTGATAT TACCCCATCC TTGAGAGTCC TCTATAAAGC TACAGGGACT TGGGAGCACC
25501 TTTAATTACA GACAACCCAT GTTCTGTGG ATTATGATTT ATTAGATTGC ACATGCCTAA
25561 ATAAAGACAT CCTCTGCAGT CTTTGTGACAA TTCTATAAGC ATCTTCTGAC TCCGCAATTA
25621 GACAGCTAAG AGATCTGTGT TACTTCCCTC ACATATATAA ATAATTTTAA ATAAAAATCA
25681 TGGCGTGAAT AATTTCTTTC CTCTACCGAT TTGAAGCTAT CCATTTGGAA GACCACTCTG
25741 AAGAGATGAA ATAAGTCTTC TGCCAAAGAT TACTTATTAA TTTACAAGGA AAAGGGGAAG
25801 TTTTGTTCCT CTCCGTGAAT TTGATTGAAA ATCGAGGGCT TTCTCGAATA GTTTTGGCAT
25861 CCAGGGTCAT TTTTCATTAA AAAGAGAAAA GTCATGTCAA ATATGAATTT CCGCAGATTA

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25921 TTCAGCACTA GACCCCTGGGA GATTCTGTAA AGAGGGGTTT TGTATACTC AACTTTTCCG
25981 GGTA AAAACAA ACACAAATAC TCCTCCTCCA AGGGGCGGGG GCGGTGCCTA GGTGATGCAC
26041 CAATCACAGC GCGCCCTACC CTATATAAGG CCCCAGAGGC GCCCGGGTGT TTCATGCTTT
26101 TCGCTGGTTA TTACATCTTG CGTTTCTCTG TTGTTATGTC TGAAACCGTG CCTGCAGCTT
26161 CTGCCAGTGC TGGTGTAGCC GCTATGGAGA AACTTCCAAC CAAGAAGCGA GGGAGGAAGC
26221 CGGCTGGCTT GATAAGTGCA AGTCGCAAAG TGCCGAACCT CTCTGTGTCC AAGTTGATCA
26281 CCGAGGCCCT TTCAGTGTCA CAGGAACGAG TAGGTATGTC TTTGGTTGCG CTCAAGAAGG
26341 CATTGGCCGC TGCTGGCTAC GACGTAGAGA AGAATAACAG CCGCATCAA CTGTCCCTCA
26401 AGAGCTTAGT GAACAAGGGA ATCCTGGTGC AAACCAGGGG TACTGGTGCT TCCGGTTCCT
26461 TTAAGCTTAG TAAGAAGGTG ATTCTTAAAT CTACCAGAAG CAAGGCTAAA AAGTCAGTTT
26521 CTGCCAAGAC CAAGAAGCTG GTTTTATCCA GGGACTCCAA GTCACCAAAG ACTGCTAAAA
26581 CCAATAAGAG AGCCAAGAAG CCGAGAGCGA CAACTCCTAA AACTGTTAGG AGCGGGAGAA
26641 AGGCTAAAGG AGCCAAGGGT AAGCAACAGC AGAAGAGCCC AGTGAAGGCA AGGGCTTCGA
26701 AGTCAAAATT GACCCAACAT CATGAAGTTA ATGTTAGAAA GGCCACATCT AAGAAGTAAA
26761 GAGCTTTCCG GGAGGCCAAT TTGGAAAGAA CCAAAGGCT CTTTAAAGAG CCACCCACAT
26821 TATTTTAAGA TGGCGTAACA CTGGAACAA GTTCTGTGA CAGTTATCTA TAGGTTTAAG
26881 TTGTGATGCA GCTGAGTTGA AAAGGCTTGA GATTGGAGAA TTAATTCAGG CCAGGCTTCA
26941 AGACCATCCT GGGCAACATA GCCAGACTAC CATCTATACC AGGGTCCCTC ATTTCCCGCG
27001 CCACCGACCG GTAACCGGTC CCTGTCCATG GCACGTTATG AATTGAGCCG CACAGCTGAG
27061 GGGTGAGCGA ACATTAACCA ACTGAGCTCC ACCGCCTGTC AGGTTAGCTG CAGCATTAGA
27121 TAGATTCTCA TAAGCTCAAA CTGTATTGTG AATGGCACAT GCAAGGGATC TAGGTTTCAG
27181 GCTCCTTGTG ACAATCTAAT GCCTGATGAT CTGAGGTTGG AGCAGTTTTA GTCCGGAAT
27241 CATTGCTCCC AGCCCTGCA CCCCCTGGTC CGTGGTATAA TTGTCTTACA CAAACGGTC
27301 TCTTGTGTCA AAAAGGTTGG AGACTACTGG TTTTACAAA AAGTAAATTA GTCAAGCATG
27361 GTTGGCACGC TCCCTTAGTC CCTGCACCCA GCGGTTAAG GATACAGTGA GCTATGATGG
27421 TGCTACCTCA CTCCAGCCTG GGTGACAGCG AGTCAGACGT TGTCTCAAAA CTTAACAAAA
27481 AAAAAAGTTA AAACAGAAAA AGGGCTTCTT GTCAGAGACT GCCGTATATC TAGAGTCCA
27541 GGAATAAAA AGTCTGATGT CCAATCCTGA AAAGCTCGAT GGTGCACTAG AGGAGGCTTT
27601 TACATGTAAG AGCATCTAAG TTCTGGAAT GCCAGTGTCA GGAAGGGAA GTGGAGAGCA
27661 ATTTGGCATC CAAACATAAC TTGCTGATC TTTTTTTTTT TTTAACACAA GTACTACATT
27721 CTAGTCTTTC TGTGGTGTCA TTGTAACAT TGTTTCTTAA TATGCTATCC ACTGACTTCA
27781 AGGGATCAAT AAATAGGAAT CAAGGTGTCC CAGAATATGG ATTAGGGGAG TTTTTTTGTT
27841 GTTGTGTTG TTGTTGTTT TCATCTATT ATTATCCTGT AGCTGAAATT TAGAATTTTC
27901 TTCCATTGTG TGTGACTGAT AGAAATAACA AATTTGTAGG TTATAGTTGT TGCAAGAATC
27961 TGGAATCGT GCTTGCTTAT TTCCGAAGTA CTATTAGGTA TATCAACAAA AACACACATA
28021 TTACGGTCAA GTGGTTTGAT AATTATTTTA ATATTATTGG TCTAATACAA TTGTAACCTT
28081 ATGAATTACT TTAAGTATCT TATTTATGAA AAGAATCTGT AAGTTTCATC AGACTACCA
28141 AGCATACCGA AGACTGAAAA ATTTTAAGAA TCCAAACCTT AATGGAAATG TTGGAGGCTG
28201 CCCAATTAGG TTCTGAATTC CACCTTCCTG AATCAACAAAC TTGTTTAAAC TCTCAGTCTG
28261 AGGTAAACTA CGTTTCTCTT TAAACAGACA TAGTTTAATT TTCCTTTGAT TTTTGATTTA
28321 GTATTCTTAC TGATCATCAT AAATAACCAA TGCTAATGTT AGTCTACTTT GGACCATGGT
28381 ATTTTCGAGAA ACTTTGAACA AAGTCCCCTG CAAAATATG CATTGCATTA TTTCACATAC
28441 ATTTATGTTT TCCAGACGGT TCAATAGTAC CTCACTTTTC TGAACCTATT TGTATAGTTT
28501 GGCATCTTTT TAAAAATTGT GTCCTATAAT GAAAGGTTGT AAACATTATG TTTTAAATTT
28561 GTATAGATAA AATCAACCAC AGACCTTTCC TTGCTTGGAT GTAATTGCCA TTGTTTCCCA
28621 ATGAGTTCGG AATTACTAGG ATTGTGCAAA AATATGCCTC ACTTGCCTGA CATAGCAGAG
28681 AGCCATTTTG CCTAAATGCT GTGCCCAGCA ATGGACTGTC ACCAGATTCT CATCACATAC
28741 AGTGAGGATG AACAACTAGC CTCTCCCAGC AGCTGGCCGG TCTCTCAATA ATATGGGACT
28801 CCCTCAAGAT GGCTTCTGTC ACCTTTGCTC CTCTAGCCTT GTATGTATAC AAGGCTAGCA
28861 TGCCTGGCAT ACATAAGGTT AAAACAAAA TCAATAAGTT ATGGTTCTTC CTCCAGTTCT
28921 GGGGATTATT AGACCACTTT TTTGTTTTGT TTTGTTTTGG ATGGAGCCTC GCTCTGTCAC
28981 CCAGGCTAGA GTGCAGTGGC ACAATCTCGG TTCACTGCAA CCTCTGCCTC CTGGGTTCAA
29041 GCAGTTCTCT GGCTCAGCCT CCCACGTAGC TGGGATTACA GGTGCCCGCC ACCACGCCCG
29101 GCTAATTTTT GTATTTTATG TAGACGGGGT TTCACCATCT TGGCCAGGCT GGTCTTGAAC

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29161 GCCAGACCTC GTGATCCACC CACCTTGGCC TACCAAACTG CTGGGAATAC AGGCGTGAGC
29221 CACCGCGCCC GGACTTAGAC CACTTTGTTT TGGCCAATAG GACAACAGCC ATAGAACCCT
29281 CCGCAAATGA GAGCTTGTC CTAAGATGC TTTATTTACA TAGCTGTGTG CCGCATGAGC
29341 CAAAAGGTGA TAACCTTTGT TCAACACGCG CCTCCAGCCC TTCGGTTAAG TCCAAAGTAC
29401 CATTCTTAGA ATGCTCTAAA ATACATAATT TTTTTTTTTT TTTTTTTTTT TTTTTTTGAG
29461 GAGTCTCTCT CTGTCTCCCA GGCTGGAGGG GAGTGGCGCG ATCTCGGCTC ACTGCAATCT
29521 CTGCTTCCGG GCTAGCTGGG CCTACAGGTG CAGACCACCA CGCCCCGCTA AGTTTGTAT
29581 TTTTTTTGGT AGAGGGGGTT TCACCATTTT GGCCAGGCTG GTCTCGGATT CTGTATCTCA
29641 AGTGATACAC TAGCTTTGGC CTCCCAAAGT GCTGGGATTA CAGTCGTGAG CCACTGCGCC
29701 CAGCAAAATG CTTTTTGTGG AGCCAATCAC TTTATTAGCG CTACCTCTC TATGCCTACT
29761 TTATGCTTTG AAATTTTGTG ACAGTGTGGC CGGTCATGGC AAACACAATT CATTCTTATG
29821 CAGGATGTCA CGGTTATTTT TGTCATCCAA ACTCATTCTC GCAACGCATT TCAGCTCTTT
29881 AAACGACTTT GTGAGCGGCC CTGAAAAGGG CCTTTGGGTT TTTTGTGTTT TGTTTTTTGA
29941 AGTTCTCAGG AGACCGCGTA TTCTTAGATT CAGCCGCCGA AGCCATACAG AGTGCGCCCC
30001 TGACGTTTTA GGGCATATAC TACATCCATG GCTGTGACAG TTTTGCCTT GCGTGTCTCC
30061 GTATAGGTGA CGCGTCTCG AATAAGCTTC TCTAAGAAAA CCTTAAGCAC ACCTCGAGTC
30121 TCCTCATAGA TAAGACCGGA AATGCGCTTG ACGCCACCGC GCCGAGCCAA ACGGCGAATA
30181 GCCGGTTTTG TAATGCCCTG GATGTTATCC CGGAGCACCT TACGATGGCG CTTAGCACCA
30241 CCCTTCCCCA AGCCTTTTCC GCCTTTGCCG CGACCAGACA TGATTCCTAT CGCAGTGGA
30301 GGTATGAAC TAAACAGTTC CTTAAATACA AACTTGGCGG ACCTGATTGA AAACAACATG
30361 AGTTGGCGCG GTTTTTTTTT TTTTCAAAT TTGGTCACCA AGTGGGTGGA GCAAGAAAAA
30421 CTGTTTCATT ATGGTTCATT GTTTTGATTG GCCAGTGACA GCTTGCTCTT TGTGGGAGTG
30481 GAAGGGTGTG TGCAAGTTGA ATGCGCTGTA TTCCTGTCAG CTTAATGACG CTAAGCATAG
30541 CCCCATTCCA CATTCTTTT TATTCCACT TGCTAACTAA TAAATTACGG AATAGTTTAT
30601 TGGGGAACAT ACAATAATG TTTAAAGGAG GTCAGATTTA TAGGTCAAGG GATTTACCCT
30661 CCCAATCATT TTAATATTTT TATTAAACC AGGCATTTTG ATGGCCTTCT CTGTGCTGGA
30721 CAAGGTATAA GTTTGGCTAT GAAGTTTCAC TCCTAAAGAC CCTATGTTTT GGGGAAGGCA
30781 AAAGGTAGCC AAATAATTGC AAATTA AAC CTCATAAGTG CAAACTTCTT CCTCGTACT
30841 TTCCCTATCT CGATTCAAAT ATTTGTTGAA TGACTCATT TTCTGCAAAA GTCTGAGAGA
30901 GACAGGGAAT ATAACTTAA GTCTGGATA TATGTTTCC CGGGACGCTC TTCCTGGTCT
30961 GCTGTGCCTG TTTGCTGTGC CTGAAATTC AAACACTCTT CCCTTCCCTC CGTTTTTAAT
31021 CCCCTTCAA CTTGTACAG CTTTAGAGAA AAGAACATTC GTTTTGTA GATTGGGGATT
31081 AATTGAAGTG TAGGGCTAAT ACTTGATTAA GGTCATTACA AAATCTACAG GGTCTTCTC
31141 TGGGAGGTTT TTGTGATAAG ATTATTGGTG TTAAATAAG GCTAATCCCC TTGAAAAATA
31201 AATAGAATAG CAGAATTGGG TCTGAATGTG GTTTGAAGAA AGGGACTTCT CAATTCAAAA
31261 TTTTATTCTT AGCTTCCTGC GGGAGCTTTC CAGAATGCC ATAAGATCCA CTTTTGTTTA
31321 AAAACAAAA ACAACCCAC CCACCACTCT CTGGTTAATA AATGAATTC TATTGGGAAT
31381 ATTTAGAATG GGGCTGTGGC CTGTGAGAGA CATTATATAG TAACCTCAGA CTTGCTCACA
31441 TGAAGAGAAG AAATCCAGGA ATGGAGAAAA AAGACCCAGG AAAGGCCAGA ATGCTCTACA
31501 TGTCATATTG TTTGTATCAC TTCTGAAATA ATTGATTACA TTCTTCTGCC CCAAATTGAG
31561 TTCTTAGGTT CTCCACTCA CTGTCCACAT GCCACAACAG AGACCTTATA ACTAGAGACT
31621 TAGCTAGGAA GAAATGTCAA ACATTACAGA GAAAAAATGC AGAGTCTGAG ATCATAAGTA
31681 AAACCTCTGAA ATCTCAACAT GCCTTTTAAT TCATGAAAT AAAAAATATA GCAGCATATG
31741 CAATATGACA ATTCTCTGAA AACATACATC ATGTGAAC TA CCCTGGAACA CATCTCGCCA
31801 AGTGCCATCT TCATTTTAAC CAGAGGTCTA GGATGCCCTT CTTTATTTT GCCTATTATA
31861 TCATTTATAA AACCCCATTT TTATTTTGAT ATTTTATTTA CTTTCTATTT CTGCTCCTA
31921 ATATCTCCTT TCTAACTTT TCTCAATGAC AGTGAACCA AAACAATGAA TGTCAGAACA
31981 AATATTTAAA GGATCTGTAC ATGTAGATAT ATATATTTAA AATGGATTCT TCCACTCTGC
32041 GAAGAATTCA GGCATACTCA ATCTTATGGT TAGGGAGAGA TTAGGCTCAC TCGCCTAATC
32101 TGTATGGCTT CTCGTTGCT TTCCATTTCA CCTTCTCTC ACCCATCAGA TCAAACATCAT
32161 TCATTGAACA AGAGACCTAA GCCCTTCAGA TTAACCTCT GCAACAAGT TGTGGTTGAG
32221 AGGATACATG AAGCATTCAA ACAATAAAT CTATGATATT AATCAGAGGT TAATCTATGA
32281 TATTAATCAG AGGTTAATGC AGTGGCTCAC GGCTGTAATC CCAGCACTTC AGGAGGCTGA
32341 GTTGGGAGAA TCGCTTGAGC TCAGGAGTTC AAGACCATT TGGGCAACAT AGCAAGTCTT

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SUBSTITUTE SHEET (RULE 26)

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32401 CATCTCTACT TAAAAAATAA TAACCAGAGG TGTTATGAAA ATATAAATTG TCCAGAAGTA
32461 CCCTCCACAA ACTAACTCTC TCAGAAATATT CGATATGAGG AATGAAAATAT GGTGTGTGTG
32521 TGTGTGTGTG TGTGTGTATG TGTGTGTGTG TGTGTGTGTA TGCACCTATA TATGGCACCT
32581 ATATATTCAA CAAACAATTC TGATAATTGG CCAGGGTTGA GAATGACTAG CAGCCCAGCA
32641 TACACTATCA GTTTTAAGTA TATAATTGCG CTTTAGTAAA ATGTAAAGAA ATCCCAGAGT
32701 AGAAATACTT TTAAGCTATA TTACAGGTGA GAAAATGCAT AAGTATAGTC TCACCCAACT
32761 TAGACTATGG GGGCTTTATA ATGTCACAAC AGTTGTTTCC AGGCATTGGG GGACATCACC
32821 ACTGGTCTTG GGCAAGAAAC TCCTCTAGCC AATGGCTGAT TTATCTCACT CCCATCTAAG
32881 GCTTCACTGC ATTTCTCTTT TTCAGCAACC TAACTTATTT AAAAATATCC ATTTTCTGAT
32941 TCATTTTTTT CTGAATTAAA CTGTCAGTAC CATTGGCACA CCTTTGGTTC CGTAGCATAC
33001 CTGTGTCTCT GCTGTGTTTT TTTTACCT CCCTCCTTA CTTTTCTAGA AAAAATCTC
33061 TGCTTTTTCT TTTCACTTTA AATTATTTCA CAAAAAGTTT TCTTGACTTG CACTTCCTAG
33121 GCTTGCTGTC CTGTGTGGG CACGCTCCCA TAAACACTAT TAATACACTT CGATTTGTGA
33181 AAAATAAAGA TATCTGGACA GAAAATTTCT TTTCTTTTTT TAAGATTTTA AAATTTTTAA
33241 TGTTTATTTT TTTCTAGAC TGGAGTACAG TGGCACCATG ATGGCTCATG GTAGCCTACA
33301 CTTCCCCGGG CTCAAGTGAT CCTCCACCT CAGCCTCCCA AGTAGCTGGG ACTACAGGTG
33361 TGCACAACCA CACCTGACTA ATTTGTTTA TTTGTTTGT TTGTTTTTTG AGATGGAGTT
33421 TCGCTCTTGT TGCCAGGCT GGAGTGCAAT GCGGGATCT CGGCTCACC CAACCTCTAC
33481 CTCCAGGTT CAAGCAATTC TCTGCCTCA GCCTCCGAG TAGCTGGGAT TACAGGCATG
33541 CATCACCACG CCCAGCTAAT TTTGTATTTT TAGTAGAGAC GGGGTTTCTC CATGTTGAGG
33601 CTGGTCTGGA ACTCCTGACC TCAGGTGATC TGCCCGCTC GGCTCCCAA AGTGCTGGGA
33661 TTACAGGCGT GAGCCACCAC GCTCGGCCAC TAATTTTGTA TATTTTGTAG AGATGGGCTT
33721 TCCCTGTGTT GTCCAGGCTG GTCTTGAATT CCTGGGCTTA AGTGATCTGC CCACCTTGTC
33781 CTCCCAAAT GCTAGGATTA CTGGCGTGAG CCACCAGGTC TGGCTGGAAA GATAATTTCT
33841 AACATTATCC TCTCTTAAAC ATTTGTTTCA AAAATTTTAC AAACATGAGA GTAATTAAAT
33901 TTGATTTTCA AAATCCCTT GAATACTTTC TTAATAGCAC ACAGAAAGCA CAAAGTATTT
33961 TACATTTGTT TTAATGATGA AATTGTGAA CCAAACCTAC ACAAAGAAAA ACCCGTAACA
34021 TTATACCCAT ACTTAAACA GATGCCCTCA TATACATAGT AAAACTCTTG GGGGCAGTAG
34081 TGAAGTTGGT TATTTACTGT TTTATGAAAG TGCCATTGAG CCGGGTGAG TGGCTCATGA
34141 CTGTAATCCC AGCACTTTGG GAGGTCGAGG CAGGCTGATC ACGAGGTCAG GAGTTCAAGA
34201 CCAGCCTGAC CAAAATGATG AAACCCTGTC TCTACTAAAA ATACAAACAT TAGCTGGGCG
34261 TGGTGGTGTG TGCCTGTAGT CCCAGCTACT CAGGAGGCTG GGGCAGGAGA ATCGCTTGAA
34321 CCTGGGAGGC GGAGATTGCA GTGAGCCGAG ATCGCACCAC CGCACTCCAG CCTGGGAGAC
34381 AGGGCGAGCT CCGTCTCGAA AAAAAAATC AAAAAAGTGC CGTCATAGTG ACTCAGTTTT
34441 AAGGAATAAA TCAAGGATAT TTAACCTAAT AGACTACAGT TAGCTAACGT GACTTGCACT
34501 GAAAGTTATA CGAATATTGG TACTTATTC CCTGCCCTG AAGTATCAAT TAAAGACTCC
34561 AAAATCTTTT TTAGAATCTT CAGAGTAAAA GCTAGAATTT GATTTTTTTA AATAATAAAA
34621 AAATACTTTG TATCTAAATC TGGTGTATAA AATAACTTGG TGGATGATGC TTCAAGGCTA
34681 TCCATCCCA AATTTCTCCC TGAATGATAA AGAGAATAAA TGAATATGTC AATTCAAAAG
34741 TTAGAAATTT GGCCGGGCAC GGTGGCTCAC TCCTGATAAT CCTTTCGGAC GCTGAGGTGG
34801 GTGGATCGCA TGAGCTCCGG AGTTCAAGAC CAACCTGGGC AACATAGCCA GAACCCGTTT
34861 CAATAAATAA TAGAAAAAAA TGAGCCAGGC GTGGTGGTCC CAGCTACTCA GTAGGCTGAG
34921 GTGGGAGGAT CACTTGAGCT CAGGAGGTCG AGACTGCAGT GAGCCGTGAT CGCAGTACTG
34981 CACACCAGCC TTGGTGTGAG ACTGAGACCC TGTCTCAACA ACAACAAAC AAGTTAGAAA
35041 TTTGGCTGGG CGCGGTAGCT CACGCTGTA ATCCAGCAC TTTGGGAGGC CAAAAGGGC
35101 GGATCATTTG AGGTGAGGAG TTCGAGACCA GCCTGGCCAA CATGGTGAAA CTCCTCTCT
35161 ACTAAAAATA CAAAAAAT TAGCCGTGCA TGGTGGCATG CGCCTGTAGT CTCAGCCACT
35221 TGGGAGGCTG AGGCAGGAAA ATTGCTTGAA CCCAGGAGGC AGAGGTTGCA GTGAGCCGAG
35281 ATCATGCCAC TGCAATCCAG CCTGGGTGAT AGAGTGAGAC TCCATCTCGA GAAAAAATAA
35341 AAAATCTGT ATGAAGTAA CAAAATATCC TTAAATTTTA AAATACATCT GAAAGATATT
35401 TCAAAATATT TAGGAAAAAA ATTATAGGGA TCAGGCAAAAT TCTGAGATTC CTTTTTCCCT
35461 GCAGCAAACA TTAGGAGTGC TGCTGTTCTT AAAAAATGG TAACTGTTGC CACACCGTAT
35521 GTTTCCTTGG CTCAGACATA AGGTTGTGTA GTTGTATTTC CAGAATAGCT AGAATAAAAA
35581 TCCAGCACAT CATTTCTTC AGCAAGTTAA CTAACCTCTC TGTGCCTTGG TTTTATAACA

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SUBSTITUTE SHEET (RULE 26)

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35641 GCAACATAAG CATAACAGAA TAGCAGCAAT AGCTCCTACC TACCTCATAA GATTCTTTGG
35701 AGGAATTAAA TTAAGATTCA GAACACAGCC TAATATCTAG TAAGTAATAA TAATTGGCTA
35761 AAAAAATTTT CTTAAGATTA TATATATTCA TGGGGTACAA GTACAATTTT GCTACATTAA
35821 TATATTGCAT TGTGGTGAAA TCAGGGCCTT CAATCCATCC CGGAAAAAAA AAGTTTTTGA
35881 AAAGATTTCT GCCATGGAAA ACTTTTAAATG TACAAATTCA TCCATCCAAG AAATAGAAAA
35941 TATATAAGTA TCAACTCCAA ATCCACCATA TCTATCTCTT CTACACCTTA AACAATTACT
36001 CAGAAATAGA ATGCTTGAGA TACCAGAATG CATGCATATC AAGTAATAAA TGCATGCAGG
36061 ATGTCAACGC ATCCTAGGCT TTCAAATAAA ATTGTCATAC AAAATACTTT AATATTGTAG
36121 TAACATTCTA CATGTTAGAG TGTAGAAGTT AATCGCTGAT GCAAAAAAGG AAAAGAACAC
36181 ATTATACCCA AAGCCTACAG AGAGAAATCAC AATTACAAAT ATCAGCCTGC ATGTGAAAAT
36241 CTTTAAATTTG AAAGTCAGAA ATATTTAAAT GATAGTCATT GTTAAATCAG ATTGTGGTTT
36301 GAAAAAAAGT TAGTTTAAAA CTGAGTTTAT GAAAAATTG GGGATTTTAG AGACAGTGT
36361 TTGTTTTTAA ATGTGTGTGA GTTTGTGAAG AATGTTTTAT AAAATACTGA CAGTATTATA
36421 AGATGACATT ATTATAATAC AACATAAGAA TTTTGGCCTG TACCTCTCAG CAGTCCTCAA
36481 TCACCTGCTG TACTTGACTC AATGATTATC AGAGTGGTTT GTTTTCCTTC TGTTGTGTTT
36541 CCAGTTCAGG CAGCTCAGCA ATGGCCTGTG ATTCCAGCAA TTCAAATAGC TGGTAAGTAG
36601 TTTCTGTTT GTTTTCTCAA ATTTTCAGGG GCTTTTCTCT ACAAGTGATT TCCAGTGCAC
36661 GCCCCTCCAC CCATTCTTTA TTCTTTTACC TTCAGGAAAA CCCTCAGCGC TGCATCTCTG
36721 GTCACCGGAC CACCGTGGTA CATTTACCTA TGGCCACCAG GTGTCACCTC TCTCTTTACT
36781 ACCATGGTTT GTGAATGGTT TTGCCAGAGG TGAATAAGAA TTTAAATGCT AGGTCTTTGA
36841 TTTTCAAAT GTAGTTGACC TTAAGAATTT ATGAATAAAG CCAGAAAAAT TAAGCTTTAA
36901 AAACACCGAA AGAAAATGAG GACTTAAAT TTCTATTAA AAAATTAACA GGCCACAGTT
36961 GCTGATGTTT AGTAAATGTG TTAGTGAAAT GTGTTACTGT GAAGACTGGG GTGTTTCTTG
37021 AAATCTCAGC CCAGGTGAAA TAAAACCAAT ATAAAACAAA TGCTTACCTA ATAAATTAAT
37081 TGTAACATAT TCCTTATGAG GTAGAAGAGT AAGTGAAGCC TTATAGCAGT CTGCTTTCAG
37141 TATAGTAAGA TATTAAGAGA GAAATAATTT GTCATATGCT TTCAGAATGG TTTGCTGGTA
37201 AAATAACCAA TGTCTTACAA CTTAGACGAC AATGTCCCTA GAGTGAAGAA ACACGATTAA
37261 TTCGGCTACC ACAGTTGAAT GAAAATATTC CGTAAGACAA AATGTAAAGA AATTAGAAGC
37321 AAAATAAATG TCTCCAAAAT GACAAAGCGA TTAAGTATAT ACACAAGATG AACAGAAGCT
37381 TCAATAAAAT CATGCAGTAT ACAATACAAT ATACATTTAT TAAAGTATAT GCATTTTTAA
37441 TGCAACAATA ATACTAACAG GTAATAGACA AGTTGTTAAT AGTTTTTCAC TGGCTAATTA
37501 AATAACAGCT TTAATTGTAT TCATTTTATA GCTTTTCTAC AATGAGCGTA AATCACATTT
37561 ACTTTTTTCT ACATAACTTT TCTAACCACA AAAAAAGAAA ATGGTTTAAA AGAAGAGATG
37621 AGATATCTTT GCTAAAATTT AATGCCTAAA GAAGAACTT CTGAGCTGTA TATGGTATCC
37681 TGAAGCACCT GCCCTTCAAG ACAGAATGCT TGTACCACAT TTATGCAGCC AAGTGCATGT
37741 AGTAACATAA AGTAAACACA TGCCATCTGG ATATATATAT TAAGACTCTT TTGACGGCTG
37801 GGCAGGGTGG CTCACACCTG TAATCTCAGC ACTTTGGGAG GCCGAGGCGC GCGGATCACG
37861 AGGTCAGGAG AGTTCGAGAC CAGCCTGGCC AACATGGTGA AACCCTGTCT CTACTAAAAA
37921 TACAAAAATT AGCCGGGCAT GGTGGTGCAC GCCTGTAATC CCAGCTACTT GGGAGGCTGA
37981 GACAGGAGAA TCGCTTGAAC CTGGGAGGCA GAGGTTACAG TGAGCCGAGA TCATGCCATT
38041 GCACTCCAGC CTGGGCAATA GAGTCTCAA AAAAAAAAAA AGACTCTTTT GAACATGGTG
38101 AACTGATTTT CCAGAATCTA GCAATTCCTG AATGTCCTGG TTAGATTTTT TTTTAAATGT
38161 GCACCGGAAC CCCAGTGGCT CCATGGAAGG ACCTGGGCAT CCTCTAAGCC ACTTGGTGGC
38221 TTCCATTATA CCATCTCAA ATGAGAGAGC TTACTCCACT TCATTGAGGG AAATACCACC
38281 AGAGTTCTGA CTCCAGAGGC ACTGGCCTAG GGAGGACACC GTGTGTGAAG CCCAGCAGGG
38341 CCACTAGCTG TCCCCACCAA TTACAGTCCT TCGTAGGGT CCAAAGAAAT GAATGCCAAA
38401 GAGAGCAACA GAGGAGCAAG GGAGTCACAT TCCAGGACCT TCCTTCAGGG ACTTTTAAAG
38461 GAAACATGAC AGCTGAGGAT CAGTTGGTTG TTTTCTGCTG TTCCCTTCA TGTGATTCAA
38521 GCTCACTCAG AAGAAACACA ATGAGACAAG AGAAGAGCCA TCTCCTTCCT TCTCTATTTA
38581 TTCTAGGCAT CTAACTACT GAATGTAGTG GTGTCTGAGA TGTATCAAAC GGTCAGATTG
38641 ACTGAGTTTG AAACCTGTTT CTATCACTGA CAACTATGA GATACTCTAT ACTTCACTTT
38701 CTTTTTTTTT TCATTTTTTT ATTTTTATTT TTATTTTTTT GAGATGGAGT CTCACTCTGT
38761 CACCTAGGCT GGAGTGAGT GGCAGAACT CGGCTCACTG CAAGCTCTGC CTCCTGGGTT
38821 CATGCCATTG TCCTGCCTCA GCCTCCGAG TAGCTGGGAC TACAGGCGTC TGCCACCACG

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38881 CCCAGCTAAT TTTTGTATT TTTATTAGAG ATGGGGTTTC ACCATGTTAG CCAGGATGGT
38941 CTCGATCTCC TGACCTCGTG ATCCACCCGC TTTGGCCTCC CAAAGTGCTG GGATTACAGG
39001 CGTGAGCCAC CGTGCCCGGC CTACTTCACT TTCTTCATTT AAAAAAGAAA TGGGGATAAT
39061 AGTACCTATC TCATAGAATT ATTGTAAGAA GTGCATGCAG TAATGCATGT AAGTAGGTGC
39121 TCAGAAGAGT CGGACACGAA GTAAGTGCTT TTATCATCCT TATCATAATT TTCATTATCA
39181 GAACAAGGAG AGACCAGGTA GAAAATTATT GTGATTCTTC AGGTCTGGAA TACTAGAGTA
39241 GCATCCCAAA TGAAGGCACC ATTAACCTTT GCAAATCTGT ATGACACCTT CATGCCAATT
39301 AGAAAAAACA CCTCTTCACA ACCCCTTCA AGATATTTGC CTCCTACCTG CTAAAAACAC
39361 CCATCATACT ACCACAGAT AGCCATGATG CTTTTCTGG GACAGGTGCC TCTTCCATTC
39421 GTGCAGTGTA CAGCCTTCAT AGCTGTGCAA CTCACATCAC AATCAGATGG AAGAATCCCC
39481 AAGGCTTGGT GACAGATGAG TTACTGGGTA ACACAGAGAG AGGATTCAAA GGAAAAGTTG
39541 AACGGGTCCA GAAAATGCAT AGATACATGT GTAAAAATCT GGTAAGGTTA TGAATAGCCA
39601 CGTCCCAGGG TTCAAAGCTT TTCTCAGATG TTAAAAATGAA TCATGTAAGT CCCCCAAATT
39661 TAAGGAGTCC TCTTCCAAAA ATAGGAAATG AAATGACATA GGTGTATGTC TCTGAGGTGA
39721 CGGAGGAAAT GAAGGAAGCC TCTAGATGCA GCTTGAGGTT CATGAGAGAC AGTTCCAGGG
39781 GAGAGGTAC AGCTAGGGAT CACCGGCATG CAGGAACTCA GAAACCTAAA TGGGGAAATC
39841 TTTTGTAGGA AATGAACAGA GAAGGCTAAA ATCAAGGAGT TCGTCAGGCA ATTTCTATGT
39901 TTAGGTTCAA CTCTCTCCTG AAACATGAAG AGCTCATAAA TGCACTCCCT CTTTGAGTCT
39961 CTAGTTTTGT CTCCTTCCCA CAGTGAGTCT GCAGGCTGCG TGCACTCAC GTTCAGCTAA
40021 GACGTAGTGC CCCATGGCTC CTCTGTGGA GACAAGAGAC CCAGGAAAGA GGCATCACAA
40081 ACCTAGGCAC CATCTTGCTT CTCTCTCTT CTTATTTTC CTCACTACC CATCTCAATT
40141 TAGACCTGGG CACTATTGGA TTTCAAGAAC CATTATCTCT CATCTGAAA TGCTTATTGG
40201 CTTTCTAACT GGTCTCCTCA CCTCTCATCT AACTTCTTAA CAACACATTC ACCATATAAG
40261 GGAGATCGTG GTCCTCCTTT CTTAGGATCC TTCAATGACA CCCAGTGAT CATAACCCAA
40321 TATCCCAAAA GACCCTTGA CTCTGTATGA GCTGGCTTCT TTCTGATTCT CTTTCCCTA
40381 CACCACAGAT GTTCAGGGGG TAGAAATGCT TAATTGGTGA GTGATAGCTA CGCAAACCTCA
40441 GGGTTAAGGT ACAGTAATTA TTCTAATCT CCCAGTATGC CTTATACTCT CCTACTTGGC
40501 ATGGTTGCTC CGTCTGTGTA GACCTCCCAT CATCTTCAAC CTCACCTAAT GGAATCCAGC
40561 TTCTCCTTCA AGATCCAGAA GGCTATCTTG ATCCCCAGCT GAATGTGATC ATTCTTTCCT
40621 TTGACACCCT AAGCATTTCG TTCCTGCCTG CTTTAGGACC TCATGGGGTC TTCTTTAACT
40681 ACATTTACTT GCTATCAATT TCATTCCCTA CCAGATTTGG GTTCTGAGAA TAGCCACAGT
40741 GACTTCTCAA CCTCAAAGCC CCTGTACTAC CTTAAACAGC TCTTGCAAAA TAGTAGGTGC
40801 TCTGAAGATG TTTGTTGAAT TAGAGACTTT CATTCTGGGG AGAACCATTA TTTTCTGTCT
40861 CCCAGGGAGC TGCTGGTGTC CCCAAAGAA ATAAATGAGA AAAATGCTTC CCATGGATGC
40921 CAGATCCCCCT CTGCCCCCTC TCCCACGTG CCCTGGGGCA GAGGTACTAA GAGACTTCCC
40981 CCTTGTTCCCT ACTCACTTGA ACCCTGCCTC TTCCTTAATA TTATGAACAA AATTCCAATG
41041 AACAAGATGA CGACAAAAAC AGCAATTCCA CTGATGACTC CAATGACTAG GGTGCCAGAC
41101 GGTGAGGGCT CTAAACAGA AAAAGCAAGT TAAAGCCTT GATTGCCACC CTCAGCCCAC
41161 CCCCTAACAA AGAGCAGATC CTCATCTCAC TGCCATAATT ACCTCCTCAG GCACTCCTCT
41221 CAACCCCCAA TAGATTTTCT CAGCTCCTGG CTCTCATCAG TCACATACCC CAGATCACAA
41281 TGAGGGGCTG ATCCAGGCCT GGGTGCTCCA CCTGGCACGT ATATCTCTGC TCTTCCCCAG
41341 GGGGTACAGC CAAGGTTATC CAGCCCTGGT AGGTCCCATC CCCATTGGGC AATACGTCCT
41401 TAGGTTGAA CTCTTGGCA TCCATTGGCT GCTTATCCTT CAGCCACTTC ATGGTGATGT
41461 TCTGGGGGTA GTAGTTCAAG GCCGACACC GTAGAGTGGT CACTGAAGAG GTCACATGAT
41521 GTGTACACCT CACCAAAGGA GGCCTTGAC AGGAAAGAGG AAGGATGAGG AGAGGGGATC
41581 TGTTTACCCT TGCCAGGAAG ACTGGAACCT TCACTTCCTT CTATAGGTTG GAGGAAGGAA
41641 ATACCTTTT CAGAAAAAAA CAAGCTACAG GAGAGACACC ATTTTGTGTC CTAAGATTGG
41701 ACTCTAACAC AGTGTCACTT GGAGAGCAGT CAGATCAGCT TGTTCTCCTC ACATGTAAT
41761 ATACATATCT GTTACCCATG TTCTTTGTTT TGATAGATAA AATTGCCCTT TATGTGCATT
41821 GAAAATGATT GAATACAGAT GGTCAGTTTC ACCTGGGTCA ACCTAGGAGG CATTGTTATA
41881 AGAAGCGGAC TTGTAAGATA GGTAGCTTCA GTGATTATTG CTATGTTCTA TGAAGAAGAAC
41941 TTTTAACCTA AAGGATTCTT CTACTCTGAT AAGTGGCCTC ACTTGATATT TTGTCCTGGT
42001 ATTCATATGA TAGCTGAGAT CTCTGAATTC TCTTTTTTTT TTTTTTTTTT TTTTAAAGAT
42061 GGAGTCTCAC TCTGCTGCCT AGGCTGGAGT GCAGTGGCGC GATCTTGGCT CAGTGCAACT

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SUBSTITUTE SHEET (RULE 26)

WO 98/14466

PCT/US97/17638

29/162

42121 TCGGCTTCCC AGGTTCAAGC GATGCTCCTG CCTCAGCCTT CCAATTAGCT GGGACTACAG
42181 GTGGGCGATGA CTGTGACCAG CTAATTTTTT TATTTTTTTA GAGACGGGTT TCACCATGTT
42241 GGTGAGGCTG GTCTCAAACT CCTGACCTTG TGACCACCCG CCTCGGCCTC CCAAAGTGCT
42301 GGGATTACAG GGGTGAGCCA CCGTGCCCGG CCTTGACATT TCTGAATTTT TAACAGGTAT
42361 AAATATACAA AAGATTATTG GTTAAATAAA AAGCAAGGGC CATAGACACT TCCCTTTGAG
42421 CCATATGCAT GGAGAAAAGA AATTAAACCC ATGACTTTGT GCTGTCTCAT ACATCTCAAT
42481 TATAAGGTAG AGACTCTAGG ATTGAGAAAG TCCCTTCCCA GAATTTGGAG AGGCACACAG
42541 CCTCAGCCAC CTCTGAAACT CCAACCAGGG ATTCCGTGCC CTGCAACCTC CTCCACTCTG
42601 CCACTAGAGT ATAGGGGCGAG AAGTGTGTTT CCACCATACC TTGTTGGTCC AAAACACCTC
42661 TCCCAGCTC CAGCAACTGC TGCAGCTGTG CAGGGCAGTC CCTCTCCAGG TAGGCCCTGT
42721 TCTGCTGGC CCGAATCTTG TGCCTTTCCC ACTCCAGCTT GGTGGGCCAG GCCCTGGGTT
42781 CTGCTGCTCT CCAATCCAGT GTGTGAGGGC AGAATTCAG GTGCTCTGC CCATCATACC
42841 CGTACTTCCA GTAGCCCTCG GTACTGTTGT CTTCTTGCTT TCCACAGCCC AGGATGACCT
42901 GCAGGGTGTG GGAATCTGGA AAAATCCCCA GCCTTGTTAA CTGCAACCAA AGGAATAGGT
42961 CCCTATTTC CCAATCCCCA AGGACCAAAT GATCTCAGGA AGCAAATTCC TTCCCTCTTC
43021 CCTGCTCCA CAAGACCTCA GACTTCCAGC TGTTCCTTC AAGATGCATG AAAAGATGAA
43081 AAGCTCTGAC AACCTCAGGA AGGTGAGGCC CCCTCTCCAC ATACCTTGC TGTGGTTGTG
43141 ATTTTCCATA ATAGTCCAGA AGTCAACAGT GAACATGTGA TCCCACCCTT TCAGACTCTG
43201 ACTCAGCTGC AGCCCATCT GGCCTGAAAT TCTACTGGAA ACCCATGGAG TTCGGGGCTC
43261 CACACGGCGA CTCTCATGAT CATAGAACAC GAACAGCTGG TCATCCACGT AGCCCCAAGC
43321 TTCAAACAAG GAAAGACCAA GGTCTGCTC TGAGGCACCC ATGAAGAGGT AGTGCAAGA
43381 GTGTGAACCT GGAGACAGAG CACAGGCTT TAACCATGTG TAGTAGGAGG GGAGCAGAT
43441 GTTGAGGCTC CACACACTG CATCAACTCA TACCATCAGC TGTGTCTGTT CCTCATTTTG
43501 TGAAGGCTGA GTTSCAGTCC TGTCTTTCTT CCATATGACA GTCCTGGGTG CTCTTTCTCT
43561 GTGTGCTTTT CTCTGCCACA CGTGGCTGCC ACCCTCTCAC TGCCCCCAGA TCTATTCCA
43621 ATACTCATGA TTAGACAGAC TCACATAAG CTGGTGGATT CTAGAAAATG TTAAGGTGTG
43681 TCTAGCCATG GTAGTTGAAC TCAGGAGTTG GTCTCAGGG CAAATTAGAC CCAAATCCTG
43741 AGGAATAATT CCTTCAGTTT TTTTTTTTTT TTTTTTTTTT TTTTGTAGA CAGACTCTCA
43801 CTCTATCACC CAGGCTGAGG TSCAGTGGCA CAATCTCAGC TCACTGCAAC CTGCACCTCC
43861 TGGGTTCAAG GGATTCTCCT ACCTAAGCCT CCTGAAAACC TGGGACTATA GCGGTGCGCC
43921 ACCACACCAG GCTAATTTTT GTATTTTTAG TAGACATGGG GTTTCACCAT GTTGGCCAG
43981 CTGTCTCAA ACTCTGACC TCAAATGATC TACCTGCCCT AGCCACCATA GTGCTGGGAT
44041 TACAGAAAGT AGCCACCGTG CCCAGCCTTG GTCTGAAAT CTTACACTGA ACTGCCTATG
44101 TGGCCTCACC ACTTGGAAGC CTGACTGGAA TCTCAAACCT AACATGTCCA AATGCAGATC
44161 CTGATTTTAC CCAAACCTGC TCTTCTCTCT GCCTTCACCA TCTCAGAAAT GGCATTGCCA
44221 ATTACCCAC TGCTCAGGCC AATAAAATTA AAATAAGAA CAAAGTCAAC TTTAACTCTT
44281 CTCTTTTTCA GGGGGTCAGG GGAGACAGGG TCTTGCTCTG TCACCTAGGC TGAAGTACAG
44341 TGGCAGCTC ATGGCTCACT GCAGCCTCAA CTTCCTGGGC TCAAGCAATA CCCTCCACCT
44401 CAGCCTCCCG AGTAGCTAGG ATCAGAGGTG CATGCCACCA CACCCAGCTA ATTTTTGTAT
44461 TTTTGTAGA GAAGGGGTTT TGCTGTGTTG CCCAGGCTGG TCTTGAATC CTGAGCTCAG
44521 GAATCTGCTC TCCTTGGCCT CCTCCTTGGC ATGAGCTACT ACACCCAGCC AATCTCTCTC
44581 TTTCTCTCAC ACAACATAGA ATCCTTCAGC AACTTCTTTC AGAATATATT CAGGAGACAA
44641 TGGTTTGTCA CTCCCTTTTC TGTTCACCAC CAGCCCACTC CACTACCTCT TGCTGGACT
44701 GTGTAACAGC TTCTTGCTG GGCTCCCTGC TTTTACTGTT GCTCCCTTCA TTCTGCTTTC
44761 CACATAGCAG CCAGAGCAAT CTTTAAAAAG CCTGTGACAG ATCACTGTTA CTCTTGGCT
44821 AGAATTCACA CCACAGCCTA CAGGCGCCTG CACAACCTTG TTTGTGGCTC CTCTTCTGAG
44881 CCCATTACCT ACTTCTTGGC CTCTACTCCC CAGCACTACT TGTATTATTT TTTCAACCCG
44941 AGCTTCTTAA CCAGGAGTTT GTCTACTAGG TGACATGTGG CAAAGTTTAG AGACATTTT
45001 GGTGTGCAAG ACTGGGGGAG TGCTCTTAGC ACCTAGTGAG TAGGGAGGAC AGGATACTGC
45061 TAGACATCCT ACATGCAGAT GGTAGTCCCC CTTCACCC CACGCGCGCC CCCCCCCCCC
45121 ACACACACAC ACATGAGTAG TGCTGAGAAA ACCCGCTTTT TAATCCAACT TGCCAGGCCC
45181 ACTCAGTTTG CCTGGGAAAT ACTGCTCCCA GTCAATATCA TTCTATTTC CTTCATGTCT
45241 CTGCTCAAGT GTCAGCCCCA GAGTGACTTG CCTGACTTC TCTGCTTCTC ACAACACCCA
45301 TGAATTCCTG ATGTTGTATA TCTTCTGCT CATTTGCTTA TTGCTATCTC TCCCCTAGA

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SUBSTITUTE SHEET (RULE 26)

WO 98/14466

PCT/US97/17658

30/162

45361 ATGCAAAATA TCAAAGGGTA AAGACTTGTT TCCCTGCTCT CTCCCTTGGG GCTTGAACAG
45421 TGCAACACAT GGCTGGGACT CATTACACT TGTAACRAAT GAATATTTCT GCTCAACATG
45481 AAATTTTATT ATTCACCTC TAATGCAGTG TGATGTTTAA GAATCATAGC TATGAAGTGG
45541 AGACATGAGC TCTGCCACCA AAGCCCACTG TACCATTGAA TAAATTTGCC AGGAAGCAGG
45601 CCGTGCCATG CCTCATTCTT GTCATGTGTA AAATGTGGAT ACACGTAGTA CCAAAACCTCA
45661 AAGTGCTGTG CTGAGGCCGG CGTGTGACCC ACAGAACACT GTGCTACACT ACAGGGCAAA
45721 ATCACTGTCA ACTAAGATTA GAAGCAGCTG TAGTACTTGA AATAACATCA GAAAACCAGA
45781 TTATTTATGT TCTTTGTAACT CTGAAAAGAG TTATATAATC TGAATTCCTAG TTAACCTCTA
45841 GTAAATATAA CGTATTATTA GCTCCTACCT CCCTATGCTT AGTGAAAATC AAATAAGATC
45901 AGATATGAAT GTAACCTAGA AGTGAGTGCA TTGCTTACAT GTTCATTATC AGTACTTTGT
45961 AGAGAGGCGT CTTAATTACA CAGCACATTG CAAATCAATA AAGCCTAGCC GAAAAGAGAA
46021 TTGTTCACTT CAAACGTTCA AACTAATCAT ATACTTAATT TTCCAGGCAA AAGAACAATT
46081 GCCAAGAGTG GGGAAAGGCC CGAGGTAGGC CTCTCTCAGG AGCCTCCAC CCTAGAGACC
46141 TCCACCCAG GTCTCACCA AAGTGGGTGG AATGGTGAAG AATTGAGATC CCCAACGCCA
46201 CTCTTTTGGG CCCCCACCG CCAACGCATT CGTTCTGAGG TGGAAACCCC GTGCGGATCC
46261 TGCTGTGGGT TTGCTCAGCC TTCTCGGCAA GCACTCAGGG AAGAACTTCC TGTTTGGAGA
46321 TGACTGGGGA AAAAAGTGA CAGCTGACAT TCGAAATAAA CCGAGTTCC AGGTTCAAGG
46381 AGCCCCAGGC TTAGCTCAGC TCAAGTGAGG AACTACGAGA TTTATTTAAA AGCATTTCTAG
46441 TTGGGGGAAG GGAGTGGGCG GTTCCAAAAG TCACTCCGCA GAGCCCGGAC AGCCGGGGGA
46501 GGGGCGAGGT CCTGGGGCGA GGGACCCCTA TCTGCAGTTC AGTGGTAGGC ACTCCCTCAC
46561 GGGGTCTGGA CGCAGAAAGT AGGGAGAGGG GCTTGGCGAT AGGGTTGAGC AGGTCTCCA
46621 AAGTTAGCAA ACTCCCAAGC GCAAAGAAA AGCTAGTTTC GATTTTCCA CCCCCGCGC
46681 GCCCCTAGTT CGCCGCGAG CCTCGGACTC ACGCAGCAAG CGCCCCGCA GGACCGCGGT
46741 CTGCAAAAGC ATCAGGAGGA GAAGCGCCGG CCTGGCTCGC GGGCCCATTT CCCCAGCTCT
46801 GGCCGCGAGT CCCCCTTAAA TCTCCGCTTC TTTTGGGGGG CCGGGAAACG GGGATGGCTC
46861 CAGAAGTCAC CCTACAGCTA TTGCCTAGGC TCAGGAGATG CCCAGTAAA CTTCCTGGTG
46921 AAAAGCAACA GGTCTTTTCA AACTTTAOTT CTCTCTCTCC TACAGCAGAA GGTACCTGCT
46981 TGTGAACAC TAGGTGATCC AGTGTCCCCC TTGGTTTITA AATCCTGAAG GGGTGTGTGT
47041 GATTGGGGAA AGTAGCTTCG CAATGTTCTG ATCTGAACCT TAGATATTTA AATATTTATG
47101 ATTTTCAAAA TTCAATCATA CATTAAAAA TTTTATCTCA ACCTTAGACC AACTTATGTC
47161 TTATTTGACT TAGAATATA AAGCTTTTTC ATTTTGTITT TTGATTCAAA TTAATTAAGT
47221 CATAACATTA ACCAATTAGA TCCTACTGAA ACACCTTCCA CAGCCTTCAT AATTGAATTA
47281 TCTGACAGT GTTTCACAAA CTTTACAGTA TTGGGATTAT CTGGAGATG ATTAAACATA
47341 TTGAGGCCTG CTCCTAACCC CAGACACACT GATTTAATGG GTAATTGTTA GGTAGTTAGA
47401 CATTAGCAGT TGGGAGGGGA TGACAGAAGA GAGCGGAAAG GCTGTCACTA AGACAGCCAC
47461 TGGCCACCT AAATTCAGGC CCAAGACTAC CCTAATGCCA CCCTAAGGGA TGGAGTTTAT
47521 GATAAAGTCT GTGGCCAAAA TATCCTGGAG AAAGAGAAAG GAGGGTACAG GTGGAAATTC
47581 CCTAAGGTGG CACATGCCCA ACAACACAAA AGCCTGTCTT CAAGTTACCC CCAAGTTCTAT
47641 CATGCCATCA TTATAATAGA ATTTACATAC AGTTTTGCCC CCCCATCCCT GGGAGGCTTT
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47761 TTCAATCAAA TAACATCATC CTGTCACTCA GATACAGCCC AAACCTCAAC TCCTCCCCAC
47821 AAACCCATA AAAGCACCTT GAGCTCTGTA AAGAAGTGCT GAGTTCACTT CGCAGAAATA
47881 AGCCCGCTGT CCTCAGAGT GTATTATTGT GCTTCAATAA ACTTTGCTTT AAGCTTGCTAT
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48061 CAGTATGGGA TGCCACCTGG GCAATGGGAT TTTAAAAGCT TTCTTCTCC CTCAACGAAG
48121 TTTGGGAATT ATTGCTTAG ACATTTCAAA CAATATTAAT AAATTTAATA CACCTGATTT
48181 GCTCCAAACC TTTACATATC TAGCAATTC AACAGGCATT ATTTTGTAA GCATGTATGC
48241 AAATTTTGGC AATTCAAGAA AATCAACAG GATATCAGGG CCTCGACTGT AGGCAACAG
48301 ATACAATAAC ATTGGAACA TGTAAGATAT TGATGATGGG CACATTGGGG CTGATAGTAC
48361 TATTCCCTTT TTTCAATTT TGTAAGATA TAATTAGCAT ACCATATAAT TCATCTATGT
48421 AAAATGCAA AATTGGCCCG GCTCACTGGC TCACGCTTGT AATCCAGCA CTTTGGGCGG
48481 CCGAGGAAGC CAGATCACCT GAGATCAGGG GTTCGAGACC AGCCTGGCCA ACATGGTGAA
48541 ACCCCCTCTT TACTAAAAAT ACAAATAA GCGGGCGGTG ATAGCAGGCA ACTGTAATCC

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SUBSTITUTE SHEET (RULE 26)

WO 98/14466

PCT/US97/117658

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48501 CAGCTACATT AGAGGCTGAG GCAGGAGAAAT CGCTTGAACC CGGAGGGCGT AGGTTGCAGT
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48781 AGACAGGAGA ATCGCTTGAA CCTGGGAGGC GGAGGTTGTG GTGAGCCGAG ATCATGCCAT
48841 TGCACCTCCAG CCTGGGCAAC AAGAGCGAAA CTCCGTCTCA AAAATAAAAAT AAATAAAATA
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48951 TTACATTTCT ATCTCCCTCA AAAGAAACCA TGTTCCCTTA ATTCAGTACC CTTAATTCAT
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49261 TTGGTTTGT TCTACTTTAT GGCTATTGGG AATAGTGTCT TATAAACAT TTATGTACAA
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49381 GGGTCATATG GTAACACTGT TTAACCTTTT GAGGAATTGC CACATTTCTT TCCAAAGTAA
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49561 CTTGTTGAGA AGACTCTTT TTCAATGAAG TGTTTTGGCA CCCTATCAA AAATCAATCT
49621 ACCATAAATG TGAGAGTTA TTTCTGGAG CTCAATTTA TCCCATATG CTATAATCTA
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49741 TGGCCCAATC CCGGCCACTG GCTCCTCCTC CCAGGTTCAA GCAATTCCTC TGCCCTAGCC
49801 TCCCAAGCAG CTGGGATTAC AGGTACCTGC CACCATGCCT GGTAAATTTT TGTATTTTA
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49921 CTGCCACCT CAGCCTCCA AAGTCTGGG ATTACAGGCA TGAGCCACCA CACCCAGACT
49981 ATAATCCTAT CTTATGTCA GGACTACACT GTCTTGATTA CTATAGCTTT TTAGTAAAT
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50281 AAACCTGTCA TATAACAAA AAAGAAATGA CCAATCACAT TGTGGAAGCC ATGGAGTGGT
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51601 GAGAGAATAA ATTTCTTTT TCTAAGCCA CCACTTTGAT AGTACTTTGT TACGGCAGCC
51661 CTAAGGAATC TGATATACAT TTCTTTTACT GTCATAGAAG TTTTGAATCT TTTAAGTAGG
51721 TCTGTACCTT TCTCCCACT GTCAACACAT GGAATTCCTC TCCTTGTGCC TTGAAAGTG
51781 AAAGGTGTTT GAAGTGGTAA TGAAAGAAAT CTCAGCATGA GGCAGATGC TGTACCTCAC

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51841 ACCTGTAATC TCAGCACTTC GGGAGGATGA GGCGGGCAGA TCACTTGAGG TCAGGAGTTC
51901 TAGACTACTC TGGCCAACAT GGTGAAACCC CATCTCTACT AAAAACAAAA AATGTTATCC
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52021 GAACCCGGGA GGTGGAGGTT GCAGTGAAC T GAGATCACGC CACTGCACTC TAGCCTTGGT
52081 GAGAGAGCAA GACTTGGTCT TAAAAAAGAG AAAAGAAAAA TGAAATTTCA GCATTATAGA
52141 ATAAAAATGT TTCCCTTCC CCCCAACTT TAAAAAAGCA GAAGTCTGCA TCATAAAATG
52201 GTCTTTGCCA ATGTTATTTT TATTATAACA AAGGAATCTT GCAAGGCTAC CAGATCTCAG
52261 CAATTGTCAC TATGTTCTGT AAAAATCACT TCCTAAAATG TCTGAATTGA CTGCTTGTCT
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52381 GTGCATTTTG TTGTTGTTAA AACAGCTTTT TTGGCCTGTC TTCTTCCACC TATGAGGTAA
52441 TATAAACTC ATGTTTAAACA CTTATTTTTG TAGCAGGACA AGCTACAGAC AAAACCCCTC
52501 AGACACTGAG TTAAAGAAGG AAGGGCTTTA TTCAGCTGGG AGCTTTGGCA AGACTCACAT
52561 CTCCTAAAAA CGAGCTCCCT GAGTGAGCAA TTCCTGTCCC TTITAAGGGC TTGCAACTCT
52621 AAGGGGGTCT GTGTGAGAGG GTCATGATCG ACTGAGCAAG TGGGGGTATG TGACTGGCAG
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52921 ACCCCCTTTG AGAATCTCAC TCATTAGTGG GAGTTCTCAC TTTTATTCTC ACTACCTATG
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53101 AGCAGTAAGC AGGTTTCTAT TAATATTATA ACTCCTATTA TAAGAGTTT AAATCTTCTT
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53401 CAGGCCACAG TAGTCAGGGC TCTGCTGGTC TTATTAGTAA TTATTTCTAA GACAGCTTGT
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54001 ATTGAGGCTT TTAGGACCCA GAAGTTATCA GGGTGAGTCT TTTGAGCTGG GAATTTATCA
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55021 TGATGAGTTT TCTCATGTTT CGGCCATGCA TGGACCAGTC AGCTCCGGG TGTGACTGGA

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55081 GCAGGGCTTG TTGTCTTCTT CAGTCACTTT GCAGGCGTTG GCGAAGCTGC CACGTACAGC
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55261 GGTTTTAGGG TGTTGCAAAAT TTCAATGGTT ATGCAGGGAT TTTCACATAG CAAACTTTGG
55321 TACTTGGTTA ATCTAGCATT TGTTAGCCAA TGATGTATTT ATTAAAGTCA CCACAGCATG
55381 GAGGGCCTTT AAGTTTAGGT TTTGTCCAAG AGTTAGCTTA TCTGCCTCTT GTGCTAGCAG
55441 GGCTGTTGCT GCCAAGGCTC TTAAGCATGG AGGCCAAGCC TTAGAACTC CATCTAGTTG
55501 TTTGGAGGCC CAGCCTCGGC CAGGGCCCCA CAGTCTGGGT CAAACTCCA ACCGCCATTT
55561 TTTCTCTTTC TGACACATAG AGTGTAAGG GTTTTGTGAG GTCAGGTAGC CCCAGGGCTG
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58261 GAACCATCTA TCCTCCTGTC CTGAAGGGAG TTCCTCCTAG GTCTGGTCAG AGCTTTGTAT

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59521 CCAATATCTC TCCCATATAT ACATATTTAT CTGACCTCTC CACATATGTA TACCTAAACT
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59821 ACTGCTGTAA GGATGGTAGA GAATTAATG TCTGAATCAG ACGAAAGGAT GAGTAATTAG
59881 AATGCACAAG GCCAAGAAGA ACAAACAGA AACTCCACAT AAAAAATGTA TGAGGCCGGG
59941 CGCGGTGGCT CATGCCAGTA ATCCAGCGC TTTGGGAGGC CAGGGCGGGC CGATCAGGAG
60001 TTTGAGACCA GGCTGGCCAA CATGTGAAA CCCCATCTCT AAAAAAATA CAAAAATTA
60061 GCCGGGCGTG GTGGTGGTG CCTATAATCC CAGCTACTTG GGAGGCTGAG GCAGGAGAAT
60121 CACTTAACT CAGGAGGCAG AGGTGTCAGT GAGCTGAGAT CACACCATTG CACTCCAGCC
60181 TGGGTGACAG TGTGAGACTC TGTCTCAAAA AAAAAAAAAA TTATATATAT ATATATATAT
60241 ATATATATAT ATATATATAT ATATGAAATA AATGAACAG AAATTTAGAT ACAGGAAAAAT
60301 CCAAAGCACT TGGTAATGAA AGAAAGGTAA AGTGATGTGT CCTTTTGCAT TTTAAAGAGA
60361 GCATTAACAA ATTAGAGAGC TGAATAATGC TCAGTATTGG TGTGGATATG GAGACTCAGG
60421 AATCCTCATA CACTGCTGAT GGGAGTGCCC ACTCCCTGGG AATATTTTCC AAATATCATC
60481 TCAAACATAT CCCATAAAGG TGACAGGAAA GTGTGGGCTG ACTGATATCC TTCACTGAGA
60541 GAGGTGGAGG TAAAATGAAG TCACTGCACA ATATAGAGTT GGAAGCAATG GATTAGATGT
60601 CCACATAGTT ACGTGGAAGA ATCCGTAAGA TACACACACA CACACACACA CACACACACC
60661 TTTGTGTATA TTGTTCTTGG CAGGTAGGCA TGGAGGTTTA GAGGCTTTCT ACATCACACC
60721 TACTGCACAC AGTAAATGGC CAGGCTGAGC ACTGACTTCC ATGAAGGGAG ATTGAAGGTA
60781 AGAGATTGAA GATTGTTCCC TGGTCTGGGA CCCTGCAACT GAATATGCAG AAAAAAGTAC
60841 ACCCGCCAC CCCGCTTCCC ATCTTTCCTA CCTGATTAGA ATAGCTTTT CAGAAAACGT
60901 TGGCCAGGGG TTGTGGCTCA CACCTGTAAT CCCAGCACTT TGGGAGGCTG AGGCGGGCAG
60961 ATCATCTGAG GTCAGAAAGT CCAGACCAGC CTGGCCAACA TGGCGAAACC CCATCTCTAC
61021 TAAAAATATA AAAAATTAGC AGGGCATGGT GGCACACACC TGTCATCCCA GCTACTCGGG
61081 AGCCTGAGGC AGGAGACTCA CTTGAAGCAC AGTGATGGAG GTTGAAGTTA GCTGAGATCT
61141 TGCCACTGCA CTCCAGCCTG GGCAACAGAG TGACACTTTG TCTCAACAAC AACAACAAA
61201 CCCACCAAAA CTTTAAATCT ACCTATGGCC AAATGCCTGC TAAAATGAGC ACCCAAGAAG
61261 CAGTGTTTCA GAAAGTCAGA TGAATACCTT AAAATTAGAT GCAATGTTGG CTGGTCACAG
61321 TGGCTCAGGC CCTGTAATCC CAATCCTTCT TGGGAGGCCG AGGCGACAG TCGCTTAAGC
61381 TCAGGAGATC GAGACCAGTC TGGACAACAT GGTGAGACCG TGTCTCTACA AAAACGTACA
61441 AAAATGAGCT GGGAGTGGTG GCGCGCACCT GTAGTCCAG CTACTCAGGA AGCTGAGGTG
61501 GGAGGATCTC TTGAACCCAG AAGGCGGAGA CTGCAGTGAG CAGAGATCAT GCCACTACAC

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61561 CCCAGCCTGG ATGATAGAGC CAGACCCCCA TCTCCAGAAA AAAAAAATAA AGAGAGAGAG
61621 AGATGCAATA TTTAGGGTTC AACAAGACTG AATTTCTGAC TCCTTTCCCT ACCTCTCCAG
61681 CATGTTAGAT TCTGGGTCTT TCATCCTAAC CCCCTGTTCA TGCCATAGCC ACCCTGTGGT
61741 ACCAACTTTG GAAGCCTGGA TCTTCATCCC CTCATGATAA TGAGTGTCCC ATCAGGTCTC
61801 CATGCTCAGC TTGGCAAGAG TATCTGTCTT CTCCTCATGG GACGGTCACA TTCACCCAGC
61861 ACTGACAGGT TCCATTCCCA CTAGGGTGCC ACCCTATATG GTCTGAGTCC AGGCCTTCCT
61921 GGTCCCTCAG TAATCTCAGC ATGGTAGCAC AATCGAAAAG GGCTAGGCAC GGCAGCACCA
61981 TTTCCCACCA AGAGGTCTGA TGGCTCATCA CATAGACTGA AGGAGATTCT GAAGAGCAGA
62041 GGTGGAATGA AGAATGAATC GTGGGCTCTG CTCTTCCTAG GCCTGTCTTC CTCTCTCCCG
62101 AGATGTTAGC TAATCTCATGA GAGCCAGAAA CCAACTGCAG GCTGGCCTCA GGCACCTTAGG
62161 TAGTGCTTCA GCCTCAGCAG TCCACATTCT AGGAACCCCTC ATAATATGGG TTGAAGTATG
62221 CATTCCCACA AAAATAAAGT TGTGAAGTC CTAACCACCA GTACTGAAAT GGGAAAAGTT
62281 CCCTTGCTCC GCTCGCATGG CATGTGATAG GAGTGTGGCT AATTTCCTCA GTGCCTGGCT
62341 GCTCAAACCT CTAGGGGAAC ATTAAGACGG GCAGGTTGTG GGTCTCCAAC CCCATGACCC
62401 CACCACAGTG TCTAGGGTTG AATGTTTACA GCTCCTGAAG CCACAGTGGG TGTGTGTTAC
62461 AGGGTGCTCT TTTAGTTTTG CCATTATAG GCAGCTGGTG TTAACCACT CAATTAGACC
62521 GTCTACCTTG TCCCAAGGAC AGAAGAAGGC TTTCTGTATC CCAGGTTCTT GCCTTGGTGT
62581 ACCGGAATAA ATCAGACCAC ACCTGGGCTT AGAGAAAGAG TGCAAGGTTT TATTAAGTGG
62641 AGGTAGCTCT CAGCAGTTGG GCAAAGCCAA AAGTGGATGG AGTGGGAAAG TTTTCCCTTG
62701 GAGTCAGCCA CTCAGTGGCC CAGGCTCTCC TCCAACCACC CCAGTCAAAT TCCGCTCAT
62761 TTTGCCAGGC AAACGTTTGT TGTGTGCTCT TCTGCCAGTG TGCTCCCTG GACGTCCAGC
62821 TATTCTGTGC TTGTGGCAGG CCAGGGGAGG TCTTGGGAAA TGCAACATT GGCAGGAAA
62881 ACAAAAATGC CTGTCCTCAC CGTGCTCCCT GGGCACAGGC CTGGGGGTGG AGCCCTAGCC
62941 GGGGACCACG CCCTTCCCTT CCCCATTCC ATATCATTTA AAGGGACCAT GCCCTTCCCT
63001 TCCCAGCACT TTCCCTCTCC TGTATCAGGA CCTGTGAATG TGGCCTTATT TGGAAATAGG
63061 GTCTTTGCAC TTCATCAGTT AAGATAAGAG TGGGCTCTAA CCCAACATAA AGGGTGTCTT
63121 TATAAAAAGG AGAAATGTCA TACACAGAGA CTGACACCTA TAGAGAGAAA ATGTGGTGAG
63181 TAGACACAGG GAGAATCACC ATTCAAGTCA AGCAATGAGT CTGGGGATAC CAGAAGCTGG
63241 GAGAGAAACC TGGAACAGAT TATCCCTCAT TGCCTTCAGA AGGAATCAAA CCTGATGATA
63301 CTTTGATTTC AGACTTCCAG CTTCCAGGAC TGTGTGACGA TAAATATCTG TTGTTAAGCC
63361 AACGAGTTTG AGGTACTTTG TTACTGCAGC CCCAGAAAAC TAATACAGTA GGTACTATGG
63421 ACTGAATTGA CTCCCGTCG CAAAATTCAT ATGTTGAAAC CCTAACCCCT AGTGTGATGG
63481 TACTTGAGGC TGGGGCGTTT GGGAACTCAT TATATTTAGA CAACTCATC AGGATGTGTC
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63601 GCCTGTAATC CCAGCACTTT GGGAGGCTGA GGTGGATGGA TCACCTGAGG TTGGGAGTTT
63661 GAGACCAGCC TGGCCAACAT GGTAAAACCC CATGTCTACT AAAAATACAA AAATTGGCCA
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63961 AGACCAGCTT GGACAAAATA GTGAGACCCC CAACTTCTAA AAATTTAAAA AATGAACTGG
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64081 GAGCCCAGGA GGAGGCTGCA GTGAGCCATT GCTGTCCAGC CTGGGCTACA CGAGAACCTG
64141 TCTCGGGAAA AGGAGAAAAC AGTGAGACCT CTTTTCTCT CCTCCTTCTC TCCACTGCCT
64201 AAGCCCTACA AGCACAAGAA GGACACCACA TGAGCACATA GTGAGAATGC TGCTGCCACC
64261 AACAAGTCAG GAAGAGAGCG TTCACCTAGA AACTGAATTG GCCAGCACCT GGATCTTGGA
64321 CTTCTGAGCT TCCAGAACTG TGAGAAAGTT ATTTTTTTTT TAGCGACTAA GTCTATAGTA
64381 TTTTATTACA GCAGCTCAAG GTAACATAA TAGTAGAAGG GATGAATTAT GGAGATCACA
64441 AGTCCACGCC TCCAGAAAAA GACTTCCCTA AAAATTAGTC TGAGCAAAAT TCGAATGATG
64501 AATTATTTTT AAGAATTTTT AAGGGATCTG ACAAGTTTGC AAGAGCTAGA GAATGCTTTA
64561 CAACGTGATA ATAGAATGCT CTGTGATGAC AGAAATCTTT CCACACTGTT CAAAAGTACG
64621 TACTGGCCAC TTGTGACTAT TGTGCACTTG AAATGTGACT GGTGTCTGAG GAGCAGAATG
64681 TTTAATTTTA CTTAATTTTA ATTCATTACA ATAGCTACAT GTAGCTAGGG GCTACTGGAT
64741 TGAACAGCAC AGCTCGAGTC TTTTAGAGGG AGACAGGACT CACCAAGATG GATGCTGGTG

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64801 GCCAAGCAGC AATGGCAGGT AGTACACACA CAAGAGGCAG ATGATACAAC ACATCCTTCC
64861 CAAACCTGGA GATAAGCTCA CCCCACAATC CCGCCGCTGA AATAGAGTTG ATGTTACCAA
64921 TGTGCATTTT TATGTCCTTT TCCATACAGA AAGATCATTG AGCAAGTACT ATGGTACTTA
64981 AAAACAACA TTCAATTCAT TATTATGACA AAATTAAATT AATAGCTCTT CCTTAAACTT
65041 TTAAATTCAA TTTACAATGC TTACTATTGG CATTATTTAA TCTACCAATT TTTTCCATA
65101 GAACCCATAG AACAAATAAT CTACCAAATT TTTAACATTC ATTTTGGCA AGGCTTTTGC
65161 AATTGACGA ACTTTAAGAA GAAACTTAT AAATTGCAAT TTTTAAATCT GACATACTGG
65221 ACTTTTAAAG TATCCAATTG ACTAATGAAC AAAACTGCTC CAAATTTTTC AATTCTTAA
65281 AATCTTAAGA CAATACTTAA TATGGCAAAAT CTTAACTTCT TAAACTTTGT AAGAATGCTA
65341 ATCAACTTAG ATTGGTATAA AGTTGAGTTA AAAATCACAG GATACATCAT CTCAGCTATA
65401 AGTTTTCATG AGTTGAGTTT TTACAATCAC TTGAAATGCT TAGAATAGGA AATACGTATA
65461 AATTATTTAA CATAAAATAT TGTACAAAA CCTCTGGAGT GTCAGTTTCT CTGGCCAGAC
65521 TTTATGCTGC AGCACCTTTG CCTGAGTTCT TGTCTGTCAT CCAGGAAGAA TTAGGTACAG
65581 AGGCAAGAGT CAAGAAGATT AGTTTCCAA TAGTTCAGCT CACCTAGTTA ACTCCTGTTC
65641 ACAATCTTCA AAGTTATCAG AAACCTGCAA TTGAGGGTTA TAATCCATTC TTTGCAGAGT
65701 TTCAAAACAA GACAAACATT GTCTATGAAT GTTAAATGT CCTAGGGTAG TCACAGTCAA
65761 AAACACAATT GACAAAGAAA TTTAGTCACC TCTGTGATTT ACAATAGCCT AACACAATA
65821 CTCTAATTAT AACTGATGAC ACAAACTCAG ATATCAGAAC TCTAGAAATC CCCTATAATT
65881 TTGGAACACA CATTACAGT TTTCACTGAA ATATGACCTG AAGATCAAAT ATCACCATTAT
65941 TTCAACAATC CTATATAACT AAACGTGTCA AATGATCCTG TTTACCTCTC CTTTGGATAC
66001 TCCAGGGGCC CTCTGTAGCA TCCAAAAGTT AGGGGTTAGC AAAGACAATT TTGAAGCTGT
66061 AAAGGCTCAA AACACTTAAT GAACCTCTAG TCATATCTGT TCTCTACTCA CTAAATGCTA
66121 GTAGCACCTC TCAGTTGTGG CTAAGCTGGG AGGATCTCTT GAGCCTAGAA GTTTGGGGAC
66181 GCAGTGAGCT ATGATTATGC CACTGCACTC CAGCCTGGGC AACAAATGCA AATCCTGTCT
66241 CAAAAACAAA AACAAAAAAC AAATTGCCTA TGCTGTGGTT ATCTCACAAT TAATAAAAAG
66301 GAAAAAATAA GTATGCAGTC TTTGTAGGTC CTTGGGGTTT GTTGGAACTC AGAAAACAAT
66361 ACCCCAAAAT AAAGACCGCA GAAGCCAAAG TTTTCTCTG ATCTTCTCTC GCCCTCCTGT
66421 CTCTGAGTCC CATTCTCCCC GGAGTCTAGC CATAGAAATG AGAATTCCTC TTCCTCAAGT
66481 TAGGTCATAG AAATCAAAAC ACCTTTTCCC CAGAGCCCAG CCATAAAACC TAAAAATATT
66541 ACTCTAACTT TCCCTCTGTT TTTCTGTGTA AAAACTGGCC ATAAAGAAAT TATCTGAACT
66601 ACCTTATTTG ATCATAGATC ACCAGACCGC ATTCCAGAGA GGATCCAGAA GGAAGGAATG
66661 CTGCACAGAG AGGCGAAGAA GAATCTAGAC AGACAGGCCT TGCTGGGTTT CCTACTCTG
66721 TTTATTAGCA ATCCTATTTT TACACGGCGG CCCATACTTT GTTGAATCTA AAAAAATAAAA
66781 ATGGACAATT TCCCCTGTAC ATGTTAATAC ACATTAATAA ATTGGATATA AATTGGATAA
66841 TTTATTAATA TACACATTAA TAAATTGGAT GCAGCCGGGT GCAATGGCTC ACGCTGTAA
66901 TCCCAGCACT TTGGGAGCTG AGGCGGGCAG ACCACGAGGT CAAGACCACC CTAGCCGAAA
66961 TGGTGAAACC CCGTCTCTAT TAAAAATACA AAAGTTAGCT GGGCGTGGTG GCACATGCCT
67021 GTAGTCCCAG CTAAGGGGA GGCTGAGGCA GGAGAATTGC TTGAACTCGG GAGGCGGAGG
67081 TTGCAGTGAG CCGAGATTGC GCCACTGCAC TCCAGCCTGG TGACAGAGTG AGACTCCGTC
67141 TAAAAATAAT AATAATAATA ATAATAATAA TAATAATAAT AATAAATTGG ATGCATTTTA
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67261 TTTTCCCTTA GCCCCTACAG GTTCTTATGT TTAATTTGTT ACTCTCATTT AAGACATAAT
67321 TAAAGTGGCT TCTCCATGAA GATTATTTCT GCATCCATTA TTTGGTAAGA TTGGCCGTTT
67381 TCTCCTTTGA TCTCTACTTC ACATGACCCC ACATAAAACA TCACTGCCTG TTTTCTTGT
67441 GTTGTGTTT GGAGACGGAG TCTTGCTCTG TTGCCAGGC TGGAGTGACG TGGTGTGATC
67501 TCCGCTCACT GCAAGCTCCG CCTCCCGGAT TCACGCCATT CTCCTGCCTC AGCCTCCTGA
67561 GCAGCTGGGA CTACAGGCAC CCACCACCAA GCCCGGCTAA TTTTGTATT TTTAGTAGAT
67621 ACGGGGTTTC ACTTTGTTAA CCAGGATGGT CTCGATCTCC TGACCTCGTG ATCGGCCCCG
67681 CTCAGCCTCC CAAAGTGCTG GGATTACAGG AGTGAGCCAC TGCGCCCCGC CCCGTTTTTT
67741 TTTTGGTTT TTGCATGTCT TCTCCCTTTT ACTGTAACT ATTTCCACTA CCAGCGTAGT
67801 TATCATTTCT ACTGCTTAAT AATTGTTTTT GGAAGTGAA TGCATCAACC CACATGAATT
67861 TCTTGTCTAT TTGACAATT ATTCTTTTA GGAATAGTAT TAACTCCTAA GGTCTGGGA
67921 GCCAGTCTCT GTACTTGGCT GCTCCAGGGT CCTACTTCAG TTTCCAGCT TTTCTAGTACT
67981 GTCAGTGTCA ATTGTGGGTA ATAATTATTT TTGTCCACCA AAAGACTCTG TATGTGAATG

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68041 AGTTTTGAAA TCTGCTGAGT AATACAGTGT CAACCCAGTT AATGATTTGC CGGGCGGCTT
68101 GATCAGGGGC TGTCCAAC TA CCGGCATTTT GATTTGGAGC GTCATCTAGT GTCTGAAAGC
68161 ACAAACAACA TCCTACATTG TAAATGCCTT TGGCTACAGA GATTGAAACC AAAGCAAACC
68221 TATGTTTTGA ATTGTTATTC TTCAGCAGTT CTGCTAGCTT TGAAAAATCT AAAAGTTAAA
68281 AAAAAGCTTT ATATTTTCATT TTCTGCCTAA ACTCTTTAAA ATTGCTAGTT GACAATTAGA
68341 TATTTTCAAT TTAATGAAAT TTTTTTTTAG TTCACAGATT AATACACAAT GGGGGAGGGT
68401 TCTTATTCTG TTGGACTTTT ACATAACCTC CACTTTAGTG CAGTCTGCTT TATGGGGTCT
68461 TGTTTGAGGT GTGTGTGTGT TTAAGGGAAT GTGGTTTACA ATCAAAATAT TGGGTTGCTC
68521 TTAGGCACAT TGTAAAGTCA CACACCTGTA TTCTTATTGA TACATAATGA TTAATAACAT
68581 TATTATTACA GCCTGATCAC CATCATTATT GATATATCTA AATAATGAAT TTTATAATTT
68641 TGCTTCCTGT CAGGCAAGAG CCAATTTTCAG TGCTACCATG TTTGTATAGC AGTATTTATG
68701 TCTGTCTATC TCAGTCATTT TACTTCACCT GTTCTTAGCC AAACGGCCGA GAAGCGATGG
68761 TCATTTTACT TCAAAAATGA AAAGAATTAA TATTTTACG TTTCCCTTAA AGACCCTATG
68821 TTTAACCTCC ACTCCTGGGT AAAATGGTCT AGTCCCTCCT TTTTCATATCA TCTCTGATAT
68881 CTTTTGCACA GCCACTATTA CCTACCGTTT TCTAGATCCC TATTCTTCAA ACACCACCAT
68941 GAAGGTAGAG CCTGTCTGAA TTATTTTCTT GTCCCTGAA CTCAGTACAT TGTTAGGCTT
69001 CTTGAAGATG TTGATCAGTT GTTTGTGGAG TGAATGAATC AGCTAGCATG ATTTTCTTAG
69061 ACCACTGAGA CAAGTGTCTA AGACACTTGT TCCTTCCCAT GTTCTTGCCT GCCTGTGCAA
69121 TCCATGCAGT CTCATGGCTT CCCAGTGCCT CAGAATTATC CCCTGTCAAA CAGGCATTAT
69181 AATTTCTGTC CACTGAAAAG GACAAAAAAC TAAGTGTATA GCTAGAAGTT AAAAATTACC
69241 GGCCAGGTAC TGTGGCTCAC TCCTGTATT TCCAACATTT GGGAGGCTGA GCGGGCAGA
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69361 AAATGTAAAA GTTAGCCAGG TGTGGTGGCT CGCACCTGTG GCCCCAGCTA CTCAGGAGGC
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69541 ATAGGAAATG CCTGTGACAG AGGGGTAAGG TGAGAGAGGT TGATGAAGAA TGTATTGAAG
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69721 ATACTTTAAT ATGTGTGTGT TTAGGATGCA TGATTTATAA TCAGTCTGCA GCACTTCTTG
69781 GAGAAGTCTG AATTCCTCATT CTCCATTTCC TTATTGGCAA CGTGAGAATG ATTACAATGG
69841 TGGTTGTCTC ATAGAATGCA GGGAGTCAGA ATGAAAATAG TCCATATAAT GCCTGGTGCA
69901 GAGGAAGGGT TCAGTTAACT GTCTGTATTA ATATTACTGA TAACAGTCAT GACAAACAAA
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70021 ATTGTAGGTA GGATGTTTTA GAAAAGTTAT TATTTAATAT ATGTATATAT TTTTGTACTT
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70501 ATGAATTCTA TAGTAAAAAA GTGCAGAGTG CTGGAATACC ATGCTCCTAA TATATTGGCT
70561 AGGCACACCT GCCTGCTATC AAAGGTATGC ACACACCTTG GATACAGAAA GTTGGGACTG
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70741 TCACAGTGAG AATGAGTGTT CTAGACTGTT TACACACCTA CCACTCCTAA ATGCACACAT
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71221 AAGCTCATGA ATGGAGAAAC TGGGATTAAA TATAAGCTT CCTTGCTCCA GAAGTCTGTG

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71281 CTTTCTGCTC TTCCACACTA CCAGCTCAGC TGTGCTCTCT ACATGCAGGC AGTTTTACAA
 71341 GTTTCAGATT AGCCTGGGAC TTCCAGGGTT TTGAATGGGT TAGGGAATGG GGAACTTTTG
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 71521 TTAATTTTAT AATATTTTAA AGGTATACAA ATAAATATTA ATATAAATAA TTAAATAATT
 71581 AATACTCAGC TTTGTTTTCC AAAGTGATAA ATGCCTATAT TTAGCAAAAT ATTTTTTGGA
 71641 GGCCTGATAG TTTTATAGGAG TGTAAGAAG TCCTGATATC TAAATGTTTA AGAACCCTA
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 73861 GTGCTGGGAT TACAGGCGTG AGCCACCCCG CCCGCGCAGA GGTCATTCTA ATAGACTTTT
 73921 TTTTGTGTG TGCTCACAGG CTGTGTTCAAT CTTATTTCAA AATTTGAGAA ATACAGTTTC
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 74281 AGGATGTATA CTGGAAGAGG AAGGGAAAAT CAGATATAAA GTTGTTTAAT GACTTATTAG
 74341 GCAATACAAT AATAACTTTT AGGGTCATTT TTTCTATATT AAGAATTCAT TTCCATCTCT
 74401 ATGACAAAAT CCTTATTAAT TTATTAAGT TCTACAAGTG AATGTTTACT TTTAGATAGT
 74461 CTGGACCCAA TAAATGTAA ACATTAAGTC AGAGTTACTT TCACGTAGGA CAGTGTGTCT

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74521 CAATAAGGTA CCACTAGCTA CACGTGATCA TTGACCATTT GGA CTATAGC TAGACTGATT
74581 TAAAATGTTT TAAAAGTGTA AAATACACAC CAGGTTCTGA AGATTTATCA TTTAAAAAAG
74641 AATGTCAACT GTCTTTTTTT TTAGCTTATT TATTATATGT TGAAGTGATA ATAGTTTAGA
74701 TATATTAAGT TAAATAAAAT ATCTTAAAT TAATTTTACT TGTTTCTTTT CATCTTTTCA
74761 ATGTGACCAC TAGAAATCTG GAAAGTATTT ATGTGATTCA CATTCTATTT TACTGTCTAG
74821 TATTGCCTTA CATCATCAGG TACCCCATAA GTAGGCTTTT TAGATAATTC TCTAATATAG
74881 CTTGGAAGGA TATGGAGAAA TATTTTTCG TGTCTTTTAA GTTTTGCATA ACTTTTTCOA
74941 CACACTTTAT AAAGGATCTA GAAAAGGGT GGTACATGT TTCTCTGTCT TCTGGCCTCC
75001 ACCATGTTGC CAGGAGGTTG GGGACAAGAT TCTGGGTGGC TGGATGTCCT AATGGCTTGA
75061 GGTCTGGACT TGAGATTGTC ATATAAAGAG ATGTGATTAG ATTGAGTCGA CTAGAAAAAT
75121 CATATTAGAG AACTGAATCA CAGCGATTAA ATTTACATGT CGATTTATAA ACCAGGACAC
75181 CAATTTATAG TGAAAGAAGG TCCAGTTACC TGGTAATCAA GACGTTTCAT AGCTATTTTC
75241 ATGATGGATA TACTTAGCTG AGTTTTAAAT GAGAAGGGGG TTCATTGCAC ATAGAATAAG
75301 ATCTAAGTGA AATGTTTATT TTATTTTTTT TTTTTTGACA TGGAGTCTTG CTCTGTTGCC
75361 CAGGCTGGAG TGCAATGAGG CAATCTCGGC TTCTGGAGTG CAATGAGGCA ATCTCGGCTT
75421 CTGGAGTGCA ACGAGGCAAT CTCGGCTCAC TGCAACCTCC ACCTCCCGGG TTCAAATGAT
75481 TCTCTGCCT CAGTTTCCTG AGTAGCTGGG ATTAGAGTTG CCTGCCACCA CGCCAGGCTA
75541 ATTTTGTAT TTTTTTAGT AGAGATGGGG TTTCACCATG CTGGCCAGGC TGGTCTCGAA
75601 CTCCTGACCT CAGGCGATCT GCCCGCTCA GCCTCCCAA GTGCTAGGAT TACAGGCGTG
75661 AGCCACCAAG CCTGGCCTAA GTGACATGTT CTTATATTGT TCCTTCTTT CTTTTTTTTT
75721 CGACTGAGTC TCACCCTGTT GCACAGCTG GAGTGCAGTG GCGTCATTT GGCCTATTGC
75781 AACCTCTGCT TCCCGGGTTC AAGCGATTCC CTTGCTCAG CCTCTGAGT GCCACCACCC
75841 CCAGCTAATT TTTGTACTTT TAGTAGAGAT GGTGTTTCAC CATGTCGGCT AGGCTGATCT
75901 CAAACTCCTG GCCTCAGGTG ATCCGCCCC GAGTCTCCCA AAGTGCTAGG ATTACAGGCG
75961 TGGGCCACGG GGCCAGCCT TATATTATT CTTTACTAC AATATATTAG TATGATGCAG
76021 GTGCTTCAAT TGTTTATACA CTTTCCATAA TTTGTATAA TTCTTATACC CTGTCACTCT
76081 GAGGAATAGC CGGTCTAAGT GTTTTCCAC CACTGCTAAT TCATCCATCA CTAATCTCAT
76141 TAGACTGTTA ATTCCAGAG GACATAAGCA CACAAGCAGA CAATGTTTAC AAATGTTGGA
76201 CAAATGTTAT TTAATAAAAC AATGGGGTCA CCCTTAGTCT AAAAGATGTT TCACCTTTCA
76261 TTTGTCATTG AACTCTTATT TGTAGGTTCC CTTTGACTT TCCCACAATC TAAGGCTGTT
76321 CTCTTTAACA CATATTTTCA TGAAAACATA TATTTGAGCA GAAATTGTTG GGGAGTTGTA
76381 ATATTACCTT TGTCCCTAAA TATGAATCTA TAATTATATC AAATATATGG GCAGACAATT
76441 TACTTTGCCT TTAATCTCAA GAAAAAATA GCAATTACTT GGGGTCGGAG AGTAAAAATA
76501 GAAGTAGTGA ACCTTAAAGT AGCAAACTTT AGAACAGAAT AGTTTCAGAG GGGATGAGAA
76561 GAGGTGATTT TTCAGCTCAT CAACAACAGA TCTTATAATA AATTACATGT TCTGGTACTT
76621 TTCTTGCTT TCTGTGTTAA ATTTTGCTAT TAAAAAAAT AAATTTCAA TACATTGTTT
76681 ATCTTAAAAG TCAAGAGTGT GTTTTATTA AGTCAGTTGC TTTATTTGCA ACTCAAAGA
76741 TATATTTGAG TTCCCACTG GAGATTGCTC TATATGGTAA CTTGCGTAAG GTATGGTTAC
76801 TGAAAGTAAC CTACAATTTT CATGGGCTGA AATTCATTT TATATTGCAG CGTACAAAAA
76861 TAAATAAATA AAAAATGCTT GTTTCTTTT AAAACATATT ATCTCAGTGC CTCTAATCTG
76921 CAAATCTATT GGCTTTTTTG CAGGCTTAAG GGCTCTCCCT TGTTCTTTTA TGATCTCTAT
76981 CTTGAGGGCC AGACCTCCTG CCTTACACAA CTCAGAGGGG GACCTCAGAG CTCTTTAAAA
77041 AGAGCCCAAT TTCTCGCCTG TAGAGAAGTG AAAAGGATGC CCCACCCCA TCTATGAAAA
77101 GAGGGATTG ATAGTTTCAA TGTCTTCAA TCAAAGATT AAGTCTGTAG CCCCCACCA
77161 CCCCAGGACC TAGCAAGGCT CATGAACCCC CTCCATCCC GCCCTAATTG CTTTGGACTG
77221 GCCGTGGAAT CCTTGTCCTA GTCCACAGTT CCTGTGCGAC TGCACGAAGA ATTCACAGAG
77281 GACCTGTGTT ACTTCCCTTG TGAAGAAACA GAATTATCAT GAAAATTTAG GTGGAAACCA
77341 TTTGCTTTT TTCTTCAAAA ATAAGGGAAG CATGTGCCCA ACCACCCCTG GGAAGAAAGA
77401 CCTTCAGGG CAAAGGAGCG AACAGGTAAT TTATAAGAAA AACAGAAAGT GGTCTCTGAC
77461 TGCCCCAGAC TTCTTCGGA GTTGGGGGAA TTGGGGACGC CTGGACGCGT TGTTTTTGTG
77521 TTTGTGAAA AAATAAATGA AGAGCATGAA GCCCGAGGCT TCTGAGATCC TTCTCTGACC
77581 AAACCAAGT GATTGTTGTC GGGGAATTT AATATTTTTC CCCTTTTGTG AGGTGGAACA
77641 AACACAACCT GGGAGCAGCG CAGCGGCTCA GAGCCTGCCA GCCAGGCGGG CGACCAGAGC
77701 ACCAATCAGA GCGCGCCTGC GCTCTATATA TACAGCGGCC CTGCCCAGGC GCTGCTTCAT

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77761 CGGCGCTTTG CCACTTGTAC CCGAGTTTTT GATTCTCAAC ATGTCCGAGA CTGCTCCTGC
77821 CGCTCCCGCT GCCGCGCCTC CTGCGGAGAA GGCCCTGTG AAGAAGAAGG CGGCCAAAAA
77881 GGCTGGGGGT ACGCCTCGTA AGGCGTCTGG TCCCCCGGTG TCAGAGCTCA TCACCAAGGC
77941 TGTGGCCGCC TCTAAAGAGC GTAGCGGAGT TTCTCTGGCT GCTCTGAAAA AAGCGTTGGC
78001 TGCCCGCCGC TATGATGTGG AGAAAAACAA CAGCCGTATC AAACCTGGTC TCAAGAGCCT
78061 GGTGAGCAAG GGCACCTCTG TGCAACGAA AGGCACCGGT GCTTCTGGCT CCTTTAAACT
78121 CAACAAGAAG GCAGCCTCCG GGAAGCCAA GCCCAAGGTT AAAAAGGCGG GCGGAACCAA
78181 ACCTAAGAAG CCAGTTGGGG CAGCCAAGAA GCCCAAGAAG GCGGCTGGCG GCGCAACTCC
78241 GAAGAAGAGC GCTAAGAAAA CACCGAAGAA AGCGAAGAAG CCGGCCGCGG CCACTGTAAC
78301 CAAGAAAGTG GCTAAGAGCC CAAAGAAGGC CAAGGTTGCG AAGCCCAAGA AAGCTGCCAA
78361 AAGTGCTGCT AAGGCTGTGA AGCCCAAGGC CGCTAAGCCC AAGGTTGTCA AGCCTAAGAA
78421 GGCGGCGCCC AAGAAGAAAT AGGCGAACGC CTACTTCTAA AACCCAAAAG GCTCTTTTCA
78481 GAGCCACCAC TGATCTCAAT AAAAGAGCTG GATAATTTCT TTACTATCTG CCTTTTCTTG
78541 TTCTGCCCTG TTACTTAAGG TTAGTCTGAT GGGAGTTACT GAGGTATCAG ACGAATTGGG
78601 TGACGGGGTT GGAGAGTGGC CGTGGTGAGG TTACAGCATT TAAACCTTTA TTGCGGCTTC
78661 TAGGTCCCTG ACCGGAGGCT TTTCTCGCTG GCGGATGGTT TTGGGATGGC AGTCCCGCCC
78721 CAGGCCTGTG AACGGCAGAA AAGACCGCAA AACAGAGACC AGTTTCTTAG TCTAAAGGGA
78781 TGTCCGATT GGAATAAAAA ATTTTCAAAA GTCCCGCCCT GCTCCCGGGT TGGTCCGTTT
78841 TTCTAGTACA TGACTTTCAT TCTGTATTTA ATTGGATGGT GGAAGACGTT GCTTATTTCTG
78901 TGTTTTTTGC TTTACTGTGA CTTAAAGATT TTGCCTCTTT TCTCTTTATA TTAATGTCTG
78961 GGATTTTCGA CGCTTTCCAT GTTGTGGTA GTCAAGTTGA TGTCTCCTGG AGGTAGTGGC
79021 AACATCCAGC CCTGGGAGGA GAGTGCGTGC AGGTACCTTT GTCCTACATT CCTCTGCTGT
79081 TAATTTCTCA TTCCTGTGGC AACGAAGGAA TGCATTAAAA AAACAGCCAC AACAGCGGCA
79141 ATAGCCCTTC CTCCACCCAA GGCAATCGTG GACCTAGGGA GTTTTTGTG CCACATAACA
79201 TGTAGCCTTC CGCTAAACTG ACAGGTTTGA GCGTATCGAT TTTGAGCGTA TCGAAAGCAC
79261 AACTTTTAGC CAGCCATTTT GTCCTCGCAT GACTACGGTT GCTTATCCTG TTTAGACAGA
79321 CAGCAACATT TAAAAATCGA AGTTCCCTTTA AACGTATTTT GTTTGGCAGT CCAATGTGTT
79381 CTATGCAGAA AACAGTATTT GTACTATTAA CTATGAAGAG TGTATGGATA AATGGGAGAC
79441 ATTTCTAATA AAGGCCTTCG TTAATGGTTC CCTCTGTTTG ACATCCATGG TGCTTCTGAA
79501 TACAGAAAGC CTAGCGTCTT ATATTCGCTT CTTTAAATAT CTGGTGGGCA CATTTTGGTG
79561 AGACCTAAAT TATGGGGACT GGGGCTTCTG GAGATAAGCT GCTCAATTAT TCTACCATCT
79621 CCACAATGAT TAATATAGTG AGTTGATTTG TTAGTGATAG TGACCACGGA TTCATCCCAA
79681 GAAAGAGAAA GGGGAGGGAG GCAAGCAGAG AGACAGGAAG ACAGAGGAG GGAAGAAGGA
79741 GAAAACATTC TCCCATGGTT TAAGTAATTT TGTGTTGTTA ATTTTACATT ACAACACGGT
79801 TTAACATGGT GAACCTCTA TTTTGGTGTA AGGTTTAACA TATGGACATA TTTTCCCAA
79861 GACCATTAT GAACTTTTCT TTCTGCTTCC CCCTTCTTCC TCCCGTGCCA CCCTCCACGC
79921 TCCTATCAAT TTTGGCTGTT TTGTCATAGG CTAATACGCT ATAATTTTCT GGACAGTTGG
79981 ACTGTCTTAG GTTCTCAGG TTTCTATTTT GTTCTTTTAG TCATTTCCAC AATTTCTAAG
80041 GTAGAATTGT ATTGTTTTAA ACATTGTGTT GTGTGCTATC CTCAATGCTG AGATGATTAT
80101 GTGACAAATG GCAAGTGTTT AACTAATACC TAAATCTGTA GTATCTTATC AAGCCTAATG
80161 CTACTTCACT ATGCCTACTC CATTACCTC ACTTTATCTC ATTACTGGCA TTCTGTCTATC
80221 TCACATCATC ACAAGTAAAA CGGTAAGCTA TTTTGAGAGA GATCACAGTC ATATAATTTA
80281 TATTTATATT TATTTATTTA TTTATGAGAC GGAGTTTCCC TCTGTACACC AGGCTGGAGT
80341 GCTGTGGCAC GTTCTCGGCT CACTGCAACC TCCGCCTCAC GGGTTCAAGC GATTCTCCTG
80401 CCTCCGCCTC CCGAGTAGCT GAGATTACAG GGGCCTGCCA CCATGCCCCG CTAATTTTGT
80461 TATTTTATAGT AGAGACGGGG TTCTACTAAG TTGGCCAGGC TGGTCTCGAA CTCCTGACCT
80521 CAGGTTATCC GCCCACCTCA TCCTGCCAAA GTGCTTAGAT TACAGGCGTG AACCACCGTT
80581 CACAGACTCA AATCATTTTT ATTACAGTAT ATTGTTATAA TTGTTGTTTT ATTATCAGTT
80641 ATTGCTAATC TCTTACAGTG CCTGATTTAT AAATTAATTT CATCATGGCC ATGTGTATAT
80701 AGAAAAAAC AGTGATATATA CGGTTACAGTA CTATCTGTGG TTTCAGGCAT CCACTGGGGG
80761 TGCAGTTTAT TAAACATGCA TTTACATTAG TCTCCCTTTT GGGAGACTAA TTAAGTGAAG
80821 TGTTGTAACG TGACTTTAAT AGCAGATAGA GCTAATTTTC TCTCATTACT CTTCTTTTTC
80881 AGAATTTTCC TGGTTATTCC ATTTTATTAT TTTCCATATG TATATTAAGA TCTCTTCCAC
80941 CTCCTCCTGT TTCTCCATCT CAACATCAAA CAATTAATAA AAAAAAAG GCTGGGCGCG

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81001	GTGGCTCACG	CCTATAATCC	CAGCTCTTTG	GGAGGCCTAG	GCGGGTGGAT	CACGAGGTCA
81061	GGAGTTCAAG	ACCAGCCTCG	CCAAGATGGT	GAAATCCCGT	CTCTACTAAA	AGTATAAAAA
81121	TTAGCCAACC	ATGGTGGCAG	GCGCCTGTAA	TCCCGGCTAC	TCCGGGAGGCT	GAGGCAGAGA
81181	ATTGCTTGAA	CCTGGGAGGC	GGAGGTTGCA	GTGAGGCGAG	ACCTTGCACT	CCAGCCTGGG
81241	TGACACAGCG	AGACTCCGTC	ATAAAAAAAA	AAAGCCGGAA	GCAGTGGCTC	ACGCCCTGTAA
81301	TTCCAGCACT	TTGGGAGGCT	GAGTCAGGCA	GATTACCTGA	GGTCAGGAGT	TCAGGACCAG
81361	CCTGGCCATG	AAAATACAGC	CTGGCCATGA	AAACACACAA	TAAATTAGCT	GGGCGTGGTG
81421	TCACACACCT	GTAATCCTAG	CTACTCGGGA	GGCTGAGACA	GGAGAATCAC	TTGAACCCAG
81481	GAGGCAGAGG	TTGCAGTGAG	TTAAGATGAC	GCCACTGCAC	TCCATCTGGG	CGACAGAGCC
81541	AGACTCTCTC	TCAAAAAACT	AAATAAATAA	AAATAAAGTT	ATGGTACATT	GAACCTCTGT
81601	GTTCCCTTTCT	CCCTTAGATA	CTTTCATGGC	TACCCATTTA	ATTGATGTTT	TTATCATCTC
81661	CAAGAGTTAG	TCAGGAGAGG	AATCAACCCA	AGCAAAAATA	GCTGATTTTC	TAATTTTCCT
81721	TCAATGCCCT	TTGGGGTCTT	AATCCATTTG	ATTTATGTAC	TTTCAATTAA	TCCTAACCTC
81781	GAATGTCTTC	TGCAACATG	TTTCCACAGA	TGAAACTCGT	CAAAATGAAAC	ACATTCCCTT
81841	AATTTATAGA	GTTAAAAATT	AGAAAAATTT	TCAATTCTAT	TTGGCCTTTA	GATTCAGTCT
81901	TGCATATGTT	TTCTCAATTT	TGTTTCATGCT	CTTTAGTTTT	GTTTTATTCC	ATCACAATTG
81961	TTACATAGC	TTACTGGCTT	AGGTCTAATG	AACCATTTCAT	TTGGAATTA	AAATTGGCCA
82021	TTTTAAGATG	AAAAAGATTC	TTGCCTCAAT	TTTACTTAGT	TTTTGAAACT	GTCAATGAGG
82081	ACACATGTTT	TTCTGTACTC	TTAGATTTCAC	TAAGTAGTGT	CTTGCAAATT	TAAGTGACAA
82141	AGGACAGATT	AACATGCGAA	AAAAAGAGCA	TGCAATTTTA	TTAGTATATT	ACATGCACAG
82201	AGTTCCCAAA	GAAAAAATAA	TTGAAACCTT	AAAAACGCGG	TTAGACTCAC	AGACTTATAC
82261	ACCATTCCAA	CAAAGGAAAG	GGAGTTTGCA	CTTCATGGGA	TGACGAATTT	GGGAATGTGA
82321	CAAGGAAATA	AATACATGGG	CAATAAAAC	CATGGAAGAT	AAAATGAAAG	ATAGAAATAA
82381	TTGTAGTAAG	GTTTGTTTTT	GCAGAGTCAT	CTCAGTGCCA	ACCTTCCATA	TCTAGTGATA
82441	AGAATTGCTC	TCTTTTTTCT	GGTATAGCAG	TTGGGGACAC	TTTTACAAGG	GAAATTTCTG
82501	TCACCTTCAC	AAAGGGAAAT	TTGGGTAAAG	AGAAGACAGA	GACCTCTTCC	TACACTGTTT
82561	GATTTTCAAT	TGCCTTCAGC	TGAAATAAAC	TTTTATGCCA	AAGTAGAATA	ATTTGGGGGT
82621	GACATCCTGA	TATTCTTCAA	AACCTTATAT	TAATTTTACA	TTAGTAATTA	TATCATTTTT
82681	GATTTTTTAA	TTAGTTTTAT	AAAATAATTT	TGAAAAACGG	TAATAATATT	CAAATAATTC
82741	CAGAAACACT	GCTGATAAGC	CAAAAACATC	AATGAATATT	GCATAAACAA	CTGATAATTC
82801	AACCATGAAA	ATTTATGACA	TTGTTCTTGT	GTGATAAAAC	TATGAGTAAC	ATAAAAACTA
82861	GAGGCTACTT	GTAATGCATT	ATTCCAAACT	TTCTGTTTTT	TATTTATTTA	TTTATTTATT
82921	TTGAGACATA	GTCTCTCTCT	GTCACCCAGG	TTGGAGTGCA	ATGGCGTGAT	CTTGTTTCAC
82981	TGCAGCCTCC	ACTTCCCCGG	TTCAAGCAAT	TCTCCTGCCT	CAGCCTCCTG	AGTAACGGG
83041	ATTACAGGCA	CCTGACACCA	AACCCGGCTA	ATTTTTTTGT	ATTTTTAGTA	GAGACGGGGT
83101	TTCCGCCATG	TTGCCAGGCT	AGTCTCGAAC	TCCTGACCTC	AGTGATCCAC	CTACCTCGGC
83161	CTCCCAAAGT	GCTAGGATTA	CAGGCGTGAG	CCACCATGCC	CGGCGCATT	TTCCAAACTT
83221	TCATACACAG	TGCTATCATG	GCTACAAATT	GAAGTATCAT	ATTATACACT	CCTAGGCAAA
83281	GCTCTGGATA	TTTTGGCTAT	ATAAGCCTGA	GGGAAATGTA	GTAAGGACAT	TGTGGTTGAA
83341	ATTCATACCA	GAGATGAACA	GGCCCAAGTC	AAGACAGAAT	TACATCACTA	AAGGATATCA
83401	GAAGAGAATA	GGGATTTAGG	GTACAGTGCC	AACAACAGTT	TTGGGAACCTA	GCATTTTTTG
83461	AGCACTTATT	TACAATATGC	CAAGCACTGT	TGCTGATTAC	TCTATATTTA	TTTTCAAACA
83521	CATTCTTGTC	ACAGCACTTT	GAAGTAAGTG	CCATTGTCAT	TCCCACCTCA	GGGTGAAGGA
83581	CTAAAGCTTG	GTGTCATTAA	GGATGTAGCT	AGTTAGCTGT	GTGTGTGTGT	GTGTGTGTGT
83641	GTGCATTTTT	TTTTAAATTT	AAAGTCAATA	AATTTTTATT	TGAAGAATTT	CACATCAAGG
83701	TAAACTTTGT	TCCTCTAAAG	AGCTGGAGTC	AAAATGTATC	TTCAAAAGAT	TCATCTTCAA
83761	GTTAGCCCTT	CTTAATAGAA	CTGATGCTTA	ATCCACAGTT	GTCAGCCAC	AGTTCTTTTA
83821	TTTTGACTTT	TTTTTTTTTT	TTTTTTTGAG	ACGGAGTCTC	TCACTGTCAC	CCAGGCTGCT
83881	GGCAGTGGC	GTGATCTCGG	CTCGTGCAA	CCTCTGCCTC	CCGGGTTCAA	GTGATCTCTC
83941	TGCTCAGCC	TCCTTAGTAG	CTGGGACCAC	AGGCGCATGC	CATCGTGCTC	GGCTAATTTT
84001	TGTATTTTTA	TTAGAGACAG	GGTTTCACTA	TGTTGGCCAG	GCTGATCTCA	AACTCCTGAC
84061	CTCATGATCC	GCCTGCCTTG	GCCTCTCAAA	GTGCTGGGAT	TACAGGTGTG	AGCCACTGCA
84121	CCCGGCCCTTA	TTTTGCCTTC	TTTAATCTCC	ATTGAAACAT	ACACATACTG	ATGAAAACTA
84181	CAACATTCTT	CACCAAAAAT	CTTTGGGATT	TAATTTCTTC	AACCACTTTA	CTTTGGGGTC

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84241 ATTTTAAGAT TAGGTGTATC TGCCTGGTTC TCAATTTGAC ACCCTTTCTC TCTAAACATG
 84301 AATGAGTTCC AATCATATTT ATTCTAAGC TATCACACTC AAAATATACTA CAGATCTGTG
 84361 GAATATGCCA AAAGTTAAGG TGA AAAAATTA AATTATTAGG TATTTTCATAG TTTTGCTAGT
 84421 TTTTGATCTG TGAGTGAATA TAACTATCCT CTATGTCCTG GCACTGTTCC TCAGAAACAT
 84481 AGGGTCCACA TATGTAATTT TAAATTTTTT AATAGGCACA TTTTAAAAAG TGA AAAAAGA
 84541 AATCTATTTT AATGATTTGA ATCCAGTGTA ACCAAAAATT GTTTCAACAA GGTATCTAAT
 84601 ATTAAAAATAT TGAGTTTTTA CTTTGTATT TTAAGTATC TTTGAAATCT GGTGTGTATT
 84661 TTACACTTAA AGCACATCAC AGTTTGGAGT AGCCACATTT CCAATGCTTA ATACTCACAT
 84721 ATGGTTAGTG GCAACTATCT TGGACAGGAC AGCTTTTATA CTCTGGGAAG ACACAAGCAA
 84781 ATACTTGCTC TGCAGCAGAA TCCAGATGTT TTCCAAGAAA ACACCTTTTC TGACCTGTTC
 84841 CTGAAACCCA GGTAGTGTCT CTAATACTTT ATATTTTATT GGTGTGCTCT ATTGTAACCA
 84901 CCCAACGGGC TCTCCTTGTC CACTTCCTAG ACAGAGCTGA TTTATCAAGA CAGGGGAATT
 84961 GCAATAAGGA GCCAGCGCTA CAGGAGACTA GAGTTTTATT ATTACTCAA TCAGTCTCCT
 85021 TGAGAAATTG GGGACCAAAG TTTTAAAGGA TAATTTGATT GTAGGGGACC AGTGAGTCGG
 85081 GAGTGTGCT TGGTTGGGTC AGAGATGAAA TTATAGGGAG CCTAAGCTGT CCTCTGTGC
 85141 TAAATCAGTT CCTGGGAGTG GTGGGGTGGG GGAATCAAGA CCAGATAATC CAGTTTATCT
 85201 ATATGGGTGG TGCCAGCTAA TCCATTGTGT TCAGGGTCTG CAAAATAGCT CAAGCATTGA
 85261 TCTTAGGTTT TAAATAGTG ATTTTATCCC CAGGAGCAAT TTGAGGTTTA GAATCTTGTA
 85321 GCTTCCAGCT GCATGACTCC TAAACCATAA TTTATAATCT TGTGGCTAAT TGTGTAGTCC
 85381 TGCAAAAGCA GTCTGGTCCC CAGGCAGGAA AGGGGTTTGT TTCTGAAAGG GCTGTTATTG
 85441 TTTTGTGTTA AAAGCAAAAG TATAAACTAA GCTCCTCCCA AAGTTAGTTA ATCCCAAACT
 85501 CAGGAATGAA AAGGACAGCT TGGAGTTTAG ACGTTAGATG GAGTCGGTTA GGTAAGATCT
 85561 CTTTCACTGT AATAATTTTC TCAGTTATGA TTTTGTGAAA GGCAGTTTCA CTGTCCACTT
 85621 CACCTCACAT CAGGCCTCTG ACTAGAGGAT TCCAACAATA CTTAGGCCAG GACACCACCA
 85681 TGTCTCCTTA TCCACCCTGA GGGAGTCCAA TTTCTGAAAC AAAGGAAACT ATATATGATA
 85741 GTATGAAACT ATATATGAGA AGGAAATTAT ATATGATAAT CAATTTTAGG GTTATCTTAT
 85801 TGATTAGAAG ATATTAAAGT GTGACACTGC CTGGCAATGA TATCTGCTGG TAGTAAGAAT
 85861 TTGGCGAATT TAGTGAAATT CCTGAGGCTG AACCTCCACT TCTGTAAAT GGAGACAGTG
 85921 AGATAATTTG CTTTACAATG CTGAAGTAAG AATTTTACAC AATAATTAG ACCAACCACT
 85981 TCATGTGGTA CTTGGCCCGT GGAAGACTAT CAATGACAGT TAGTTTATAG TTTATACTAT
 86041 TAATGAATCC TTTGTTTCAT TGTTATTTC TTTTACACGT TGGCCTCTCT AAAAGAAGGT
 86101 AATATTCAAT ACAATAAAG TTAACACAGC TTGCAGAGTT GTCCAGGGA ACTCACTTAA
 86161 CCACTGAAGT GTTCAAATTG CTTAAGGTTG ACTTTATATT CTCTGACTA ACCTTTCTCC
 86221 TTCTGGTATT TCTCTGAGA ACAGCACCAC CATCCAAAGC ATCATGCAAA CAGTGGTCAT
 86281 CCCAGACCAG TAATTTCTCA CTCACAGGTT GCTCCTGCAG AGATGTATTT GAATAGAGTG
 86341 GTAGGATGCT GAAGAAGGCC ACGTAAATTT TGGCCAGTGA TCTGGGGCAG ATTTATCCTG
 86401 AAGCTAATGA AACACAAGTG TAAGGGCCTG TACTTCCAAG GTGCAGAGAG GGGCCCTACA
 86461 AATGTGTTAG TTTGTCTCTC TCTCTCTCTC TGATTTTAAA ATTTGCAGTA TTAAGGTACT
 86521 TTAATCACGG ATGGTTCAGG CTGCTATTTT CACTCAATCC TCCTTTTAT TAAATCACC
 86581 ATTGTCTGAT TATGTTAGAA TCCTGATGAA AATATTTGGA ATTTGAGTAA GAGAAAGTTT
 86641 AGTTGAAGAT GTATCTAGTA TGGGGATAAT AAGTTACGTG ATTTGCATAT GTGATCATGT
 86701 GTACTTCATT CGTTGCCAGC CAATCTGACG TAAGAATGGC TTCAAGGAGG CCGGGCGCGG
 86761 TGGCTCACGC CTGTAATCCT AGCACTTTGG GAGGCCGAGA CGGGCGGATC ACGAGTCTAG
 86821 GAGATCGAGA CCATCTTGGC TAACACGGTG AAACCCCGTT TCTACTAAA ATACAAAAAA
 86881 TTAGCCGGGC GTGTTGGCGG GCGCCTGTAG TCCCAGCTAC TTGGGAGGCT GAGGCAGGAG
 86941 AATGGCATGA ACCTGGGAGG CGGAGCTTGC AGTGAGCCGA GATTGCGCCA CTGCACTCCA
 87001 ACCTGGGAGA CACAGCGAGA CTCCGTCTCA AAAAAAATA AAAAAAGATG GCTTCAAGGA
 87061 ATGTTCCCTAC TGCTCACTGG AATAACTCAC CTAAATTCCT GGCAAGATGC AGGTCTAGAT
 87121 AAAATGTTAT GACATCTAAG TATTCAAAAC ACATTCCCAG CACTGAGAGT GAGTGTCTAG
 87181 TGGAGAGTAG AAACGTATAG AGCCAGAAGC TAGTCTGGAA AGAATTCTTA CAAAGTTTAC
 87241 AACTTACATG TGAAAGGAGC TTAACAGAGG ATTTTCCAAA TTTGAAACA ATCTTAAAAA
 87301 CTTACTTGAC ATTACCAATA ATGTGTTTTG AAAGTGAAT ACTTCTAAGT TATGAAGAAA
 87361 ACATATTATC ATCAGCCACC CTGGAGGAAA GATTGAATTC TATTTCCATT ACCTATAGAC
 87421 AACATTACAA AATAATTTTC ATCTGAAGAT GGAATCAGAG TATTCAGTCA AAAGTACAGG

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87481 AAAATATACT TGAGTAGTGC ATATTCAGAA GTTAATAAAA TATGCTATTT TCTGAATTTT
87541 GTGATGGCTG TTGTTTTGTC AGCTTTTATA AAATTGGAAT TTGATTTTAT TTTCCCATTA
87601 TAAATTTATA TTTACAGTCT GCAGTACTTT TGCATTTTAA ATTTTACATT ATAGTTTTTA
87661 ATAGTTAACA AGTTGTAAAA GGTGTGATCC CCAGAAAAACC TTGATCTACC CCATCAGTTA
87721 AGTATACTAA TATATTTAGA AAATGGATGA AATCAGCATT TGAATATTTT TAAATATTTA
87781 TTAAGAGAGG ACATGGGTAA AAGAGCTTTG CAGTTGCCAC CCTTCATTCT CAAATTCCTT
87841 GGATAAGGAT GACCGCATAA TCTTTGGATG GTCATACGCA AGTCTTGTGT ACTTGTTACA
87901 TAAATCTATT TAGTGGACTT TTGGCAGTGT GTACTGAGGC CAGTTTCTTC CACCTGAGCT
87961 CTGACTCCAC CTCCAGCAGC CCAAAACCAA TACTGAATTT TGGGGTCAGC TATTGTTTTT
88021 GTGGACTTAG GTAACACAC ACACATTGTC TTTATGATAG CTTTAATAAT ACTGCCATCA
88081 GAACTAAAT TGTCACGTGG ATTAAGGA GTGACGGTGG TGTCCCCAGG AGCCTTTCAA
88141 TATGTAAGTA TTTACACATA TACATGCTAA AAAGACCCCT AGGAATTTT TAACAAGGGC
88201 AAAACAGTAA CTCAGCTTGT TTTCTCGCAG TAAAACCGGT TGAAAAGGCC TGATAGACTT
88261 GTCTGCAGTT ACAAACCTTG TGTGTAGTTA TCACCTTTAT ATCTCCTGGA AACTAACATA
88321 GACAACCGAA TGGGTTACAA CTGTTTTTAA GTGAAATTGT GAGTGGCTCT GAAAAGAGCC
88381 TTTTCAATGA GGAAGAAACG GGCAGACTTA TGCCCTTTCC CCACGGATGC GACGTGCCAG
88441 CTGGATATCT TTGGGCATGA TGGTGACGCG TTTAGCGTGA ATAGCGCACA GATTGGTGTG
88501 TTCGAAGAGT CCCACCAGGT AGGCCTCACA AGCCTCCTGC AGCGCCATCA CCGCAGAGCT
88561 CTGGAAACGC AGGTCGGTTT TGAAGTCTCG GCGGATTTCT CGCACCAGGC GCTGGAACGG
88621 CAGCTTCCGG ATCAGCAGCT CGGTGGACTT CTGGTAGCGA CGGATTTGCG GCAAGGCCAC
88681 GGTGCCCGGG CGGTAGCGAT GAGGTTTCTT CACGCCACCG GTGGCCGGAG CGCTCTTACG
88741 GGCTGCTTTA GTAGCAAGCT GCTTGCAGCG AGCTTTGCCG CCGGTAGACT TGCGAGCTGT
88801 TTGCTTCGTA CGAGCCATTT GCAATGAGAG CACACACAAA AGTGTAGTGA ACTGAGAGCA
88861 AGTGGCCTTT AAATATAGTG AGAAACATTC TGATTGGTCC TGTAATATTT CAAAAGTCCC
88921 GCGCGATAAA ATCATTGGCT GAAGAGTGAC CAGACTGATT GGTTCAATAC TAGACAATCT
88981 TATTGGATGA GTTGCCCCAC CGCCCATCCT GTCTTTTTCG TTTCACTTAT CTGCAGCGAC
89041 AAATTGTCTA AAATCTAGT TCATCCAGTC CCAAAGAACA GAGTGTATAA CAAGGTATCT
89101 AAGGATTTTT AAAATGTAAA TTCCGATTCA GTAAGTTTGA GTGGGACTTG AAATTCCTGCA
89161 TTCTGACAG TCTCGCAAGT TATCAATGCT GGTGAACACT CACTAAACCA CCAGAAACGT
89221 TCAGACTCAT GTCGGGAAAT AACGCTTATA TTCAGAGAAT GAGATTCCAT GCTATTTTGT
89281 TACTGGCGAA CAGCAAGTTT CCTTGCCCTT TGTCTTCTAA GTCCAAGTCA TATCTCCACC
89341 CTGCCTGTTT TCAAAATGTC TTATTTTGGT TGGCCTTAAG TTCACTTTG TATCTCTAA
89401 AATGTACTTT CTAAAGGAAG GTGTTATTTT CTCGAACTT AACTTTTTAA CACCATTAGG
89461 CTAGGGGGGC GGTGGCTCAC GCCTGTAATC CCAGCATTTT GGGAGGGCGA GATGGGACGA
89521 TCACTAGAGG CCAGGAGTTC AAGACAACCC TGGCTAAAAT GGTGAAACCC CGTCTCGCAT
89581 AAAAAATACAA AAACCTAGCTG GCGCGGGTAG CAGACGCCTG TAATCCCAAG TACACAGGAG
89641 GCTGAGGCAT GAGAACCGCG TGAAGCGGCG GGGTGGAGGT TGCAGTAAGC CGATATCGCG
89701 CCGCTGCACT CCAGCCTGGG TGACAGAACT AGACTGTCTC AAAACAAACC AATCCAAACG
89761 AAAAGCAAAA AATACCCTAA CAGAAGCAAG TTATCATCCT TTCTTGTGTA ACTATGGACG
89821 GCTCTGAAAA ATGCCGTTTC AAGTGTAAAG TACGTTTTCT GATTTGAGTG TTTACTTGAC
89881 CTTGGCCTTA TCGTGGCTCT GTTATTTTGG CAACAGGACG GCCTGAATAT TGGACAGGAC
89941 GCCTCCCTGA GCAATAGTGA CGTTGCCAG CTGCTTGTG ACCTCCTCGT CGTTTCGGAT
90001 GGCCAGCTGC AGGTGGCGGG GGATGATGCT GCGGGTCTTG TCACGTATGG CGCTGCCAC
90061 CAGTTCTAAG ATCTCGGCGG CCAGGTATTG TAAGTACACT GCGCACCAGG CTCCGACCGG
90121 CTCAAAATAA TTGCCCTTTC GAAAAAGATG ACGGACTCTG CCCTATTGGG AACTGCAAGC
90181 CCGGTAGCGA CGAACAAGTT TTTGCTTTAG CTCCATTTTC CACGTCGCA AATAGCGACC
90241 TATGAAAGCA GCGGAAACT GTGAAAGACA AGCAAGCTGG AATGGCGCCT GAACAAATCC
90301 TTTTATACAA ACTGCAAGGC TGCAATAGGA AGCTATCCTA TTGGTCAATT ATGTTTGGTG
90361 CTTTATCCAA TAGAAAAAGA TAACATAAAT TCCATATTG CATAAACCCC ACCCTCAGT
90421 GAAACCGTGT TTCTTTTGTG CAATCAGAAG TGAGGAATCT TAAACCGTCA TTTGAATCTC
90481 AGGACTATAA ATACATGGGC TCTGAACTGT TCTGTGACT ACTCTGTAGT GGAGAGTGTT
90541 AGTAGCTTTT CTATTCTGTT TAGGAATAGC AATGCCTGAA CCCTCTAAGT CTGCTCCAGC
90601 CCTTAAAAAG GGTCTAAGA AGGCTATCAC TAAGGCGCAG AAGAAGGATG GTAAGAAGCG
90661 TAAGCGCAGC CGCAAGGAGA GCTATTCTAT CTATGTGTAC AAGTTCTGA AGCAGGTCCA

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90721 CCCCACACC GGCATCTCAT CCAAGGCCAT GGGGATCATG AATTCCTTCG TCAACGACAT
90781 CTTTCGAGCGC ATCGCGGGCG AGGCTTCTCG CCTGGCTCAC TACAATAAGC GCTCGACCAT
90841 CACCTCCAGG GAGATTGAGA CGGCTGTGCG CCTGCTGCTG CCTGGGGAGC TGGCTAAGCA
90901 TGCTGTGTCC GAGGGCACTA AGGCAGTTAC CAAGTACACT AGCTCTAAAT AAGTGCTTAT
90961 GTAAGCACTT CCAAACCCAA AGGCTCTTTT CAGAGCCACC TACTTTGTCA CAAGGAGAGC
91021 TATAACCACA ATTTCTTAAG GTGGTGTCTG TGCTATTCTG TTTTCAGTTCT AGAGGATCAA
91081 CTGGAATGTT AGCGAAGACA AGTTTTAGAG CCAAGGTTAA CTTGGACGGG GCCGTGCGCG
91141 GTGCCTCTTG CCTTTAATCC CGGCAATTTG GGAGGCCGAG GCGGGCGGAT CACGAGGTCA
91201 GGAGATGGAG ACCATCCTGC TTAACACGAT GAAACCCCGT CTCTACTAAA AATACAAAAT
91261 AATTAGCTGG GCGTGATGGT GGGCGCCTGT AGTCCCAGCT ACTCGGGAGG CTGAGGCAGG
91321 AGAATGGCGT GAACGCGGGA GCGGAGCTT GCAGTGAGCC GAGATCGCGC CATGGCACTC
91381 CAGCCTGGGT GACAGAGCGA GACTCCGTCT CAAAAAATAA AAAAAAATAA AATTAATAAA
91441 ATATGAAGTT TTGAAGCAGA AATTATTTTG TCGTATGTTC TTTTCATAAT TTTTGCCTG
91501 CCTGCCTTCT TCCTTTGTGA CAGAACTCCA ACACCTACCC AAAGGTAGCT GTTGGGTCAG
91561 GGTTCCTGTA CTATAGTCCC TTCTGTGGTG GCCAGAAATA TGTTACAGGA AAGAGGTCCC
91621 CATCCAGACC CCAAGAGAGG GTTCTTGGAT CCCGCGCAAG AAAGAGTTCA GGGTGAGTCC
91681 GCAGTGCAAA GTAAATGCAA GTTTACTAAG AAAGTAAAGT GGTGAAACGA CAACTACTCC
91741 ATAGACGGAG CAGGACATTC CCGAAAGTAA GAGGAGGAAG GCATCCACCC TAGGTACAAT
91801 ACTTGATAT ATGGGGAGAT GTGCTCTGCT ACAAGTTTGT GATAAAGGAT TAATTTCTT
91861 AGTTACTATA TTTTGCAAGA ATCAACATTA TTATCTTTAA ACAAATTA GAATGCCTT
91921 GTTCTCCAGA TATAGGGATA TCTGGACACT CCTAAGTCTG AGTCTGTTTA GTAAACATTA
91981 TTTATTTGTT CCCTTAACCG TAAACATCTA GAAGCTAGGA ATGACTGACT TTCTGGGAAT
92041 GCAGCCCAGA AAGTCTCAGC CTCATTTTCC TAGCCCTCAC TCAAAATGGA GTTACTCTGG
92101 TTCAAGTAAC TCTGACACTT TTCTTCTCTT TTTTCTTCT TTTTCTTCT CTTTATTTTT
92161 TATTTTTTAT TTTTGAAATA AGAAATCAAG AATACTTGAT GTTTCATCTA AAACAATACC
92221 CATAATTGAT AAGCCAAAAC AAAAACCTAG GTCTTCTAAC TCAAACTAG GATGTTTTGC
92281 TGTCTCTGCT GATACTCGGC TGATCGTTAA TAGGTAATTA ACAACAAGC CTTGCTATGT
92341 CCCCCTCAGT TTATTACCAT TAGATCATAT GCCTACTGTC AATCATATTA ATCCCAACT
92401 ATGCATTTCA CAAAACCTGC CATAAAAATT CACAGGTTTC CCGCTTCCCT CGAGTTTTCA
92461 TTTCCGAAGG GTCCCATGTA ATATAAACT TATATTAAAT ACATTTGTAT GCTTTTCTCT
92521 TGCTAATCTT TTTTTTTGTT TTTTGAGACT GAGCCTTGCT CTGCAACCA GGTGAGTG
92581 CAATGGCGCG ATCTCGGCTC ACTGCAACCT CCGCTTCCCA GGTTCAGCG ATTCTACTGC
92641 CTCGCCCTCC CGAGTAGCTG GGACCACAGA TACGTGCCAC CATGCCCCGC TAATTTTTGT
92701 ATTTTTAGTA GAGACAGGGT TTCACCGTGT TGGCCAGGAT GTTCTCAATC TCCTTACCTC
92761 GTGATCCGCC CGCCTCGTCC TGCCAAAGTG CTCGGATTAC AGACGTGAGC CACTGCACCC
92821 GACCAATCTG TCTTTTGTGA GAGGGGCCTC AAGCATGAAC TTAGTGATGG GTGAGAAAAA
92881 CAGAATTTTC TTTTCCCCTA CAATATAAAC ATTAATTGTA ATGTTATCAT TCAGGACATT
92941 TTGGTGACCA ATCTTACAGA AATTTTATCT TGTGCAAGTC TATGCAAACC AATATGTAAA
93001 TCTTCTATAA GTGAGATTGT ATTTTACTTT TCTAGTATCC TTTTAAATTA ATAAAAGAGA
93061 TTCTAATGAT TATTTTCATT ACTGCATTTT ATTGTAGGGA AGTAGATAAT TGCCCTTTAT
93121 TCACTGACCT TCGCTTTTTA AAAATTTTAA CCATGTTACC ATGAAAATGC TTTTCAGTAT
93181 TTCTCTACAC ACAAGATTGC TGTAAGGGCA AAAATAGAGA TAGGAATCAT GCATCCATTG
93241 ATATACATAT TTTGATTTTT AATACATGTT ACCAAGTTGC CTCCTGAAGG TCTGTTTACA
93301 CTCTCACCAA CAGGGTGTTC TTTCTGACT TCCACAAATG CTCTTGAACA GTGGGTGTGT
93361 TAGTCTGTTC AAATTGCCGA CATGAACAAT TAAATCTCAT TGTTGTTTTT ATTTTTAAGA
93421 CAATTATTGT TTGAGACTGC ACATTTTGAT AATAACATTT CTTCTATTAT GGTTTGATTA
93481 CTCATGATTC TTGCCCATT TCTTTTGGGA TGTTGCCTTA TGTACATTAT TTTAAATAGA
93541 TAGCTCCATG TATTAAAAGA TTATTAAAGT TGAGGGCTTA TGATATGTCA GTTACATTTT
93601 TAAGATTTTT TTTTTTTTTT TTTTGTAGAC GGAGTTTCAC ACTTGTTGCC CAGGCTGGAG
93661 TGCAATGGTG CGATCTCGGC TCACCGCAAC CTCCGCTCC AGGGTTCAAG CAATTCTCCT
93721 GCCTCAGCCT CCCCAGTAAT TGGGACTACT GGCAAGCGCC ACCACGCTG GCTAATTTTG
93781 TATTTTTATT AGAGATGAGG TTTCTCCATG TTGGTCAGAC TGGTCTCGAA CTGCCGACCT
93841 CAGGTGATCC ACCCGCCTCG GCCTCCAAA GTGCTGGGAT TACAGGTATG AGCCACTGGG
93901 CCCGGCCACA TTTCTAAAT CTTTATAAGT ATAAATTCAT TCAATCTTCA CAAAACCTCA

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93961 ATGAAGTGTG AGTACTATTA TTATCATTGT TTTACAGATC AAAACAAGTA ATACAGTCAC
94021 TTTACTGAGTT CTATACACCT GGTAATTTTT TTGTTTCGTT GTTCTATCAA TTATTGGGGA
94081 AGGGGTGTTG AAATCTCTAC CTTTAAATCA TGTATGTGTC TATTTCTCCT TTCGGTTCTA
94141 TCAGGTTTTG CTACACATAT TTTGCAGTTC TGTATTGTTG TGCATATACA TTTAGAATTG
94201 CTTGTTTTTC GTATTGGATT GACCCTGTTA TCATTATGTA ATATCCCTGT CTGTTCCCTAG
94261 TAATTTTCTT TGCTCTGAAA TATACTTATC TGATATATCA TCCAAAAGAC CACCAGGATG
94321 GCTAAAGAGT AGAAAGGAGA GATTTACTGG CAATACTAAT TTGCAAGCCA GGAAGAGATG
94381 GTCCCAGAAC CTGCCAAAAT TACTCTCTCT TTGGGGAGAA GGAGCAGGTT GGTATTTTTT
94441 ATGCCTCATA GGCTATATAT TACACAATAG AGTCATACAT ATTTAGCACG TTTGGGGGGA
94501 CAGCTATATA TATTATGAGG GGTGCCAAGT GCATTACACA TGGATAAACA CGTGTAAATAT
94561 ACCTCCCATG TTCACTTCGA GGTTAAATTT TGGTTAAAT GAGGTAGAAT TTAGGTCCTT
94621 ACATCACAAAG GTGAACTATA GGAACAAAGT TTACGTGCTG CCTCTAGCAG CTGGCTGAAA
94681 ATGGCTTAAG GTCTACAATT ACGTGTAAAG ATAGAATGTG TGTCAAGGCG GTCTCTGTG
94741 CAATCAGAGT TGTAGTGGAC TGGACTGTAA ATCAGAGTTA GGAGGGCTTC TGATAGCTCC
94801 TATAGTTAAG GAATTTAGCA AGTGTGAGTT TTTTGGTAGT CTTTGGAAAT TAGGAATTTG
94861 CCATGCCAGC CAAGCCATGA ATGCTCTACC AGTAGGTAAC TTTGTTTGCT TAATCTTAGA
94921 GTCTGTCTTA GTTGGTATAG GGGCATCTAT TTTGGTCTTT CAGATCCCAG ATATTATTAA
94981 TACAGATACT CTTGCAGTTT TGGGCTGATG TTTATATGGC TTATCTTTT TGCAGCCTTT
95041 AATTTCAACC TGCGTTATGT TTATATTGTA AGTGAGATTC TTGCAGACAG TGTACAGTTG
95101 TTGTTTTTTT TTTTTTGAGA TGGAATTTCA CTCTTGTTGT CCAGGCTGGG GTGCAGTGGC
95161 ACAGTCTCAG CTCACTGCAA CCTCCGCCCTC CTGGGTTCAA GGGATTCTCC TGCCTCAGCC
95221 TCTTGAGCAG CTGGGATTGC AGCCATGCGC CACCACACCC GGCTAATTTT TGTATTTTTA
95281 GTAGAGACAG GATTCACCAT GTTGCCCAAG CTGGTCTCGA ACTCCTGACC TCAAGTGATC
95341 CGCCAGCCTC GGCCTACCAA AGTGCTGGGA TTACAGGTGT GAGACCTCGC GCCCAGCCAA
95401 ACTGTTTTTT TATGGGTGTA TTTATACCAC ACACATTTAA TGCAATTATT GATATCTTAG
95461 GGCTTAAGTT CATGAAGGGT AGTGTGGGAA CCATAGTCTC TTGGCCCACT AAATGTTTGC
95521 CAGAAATCAC TGACAAGGCA GATTGATTAA TAGGTGAAAA GGCATTTTAC CTATTGTTTA
95581 ACGTGTCTAT GTGGGAGCAT TCAGAAATTA TTACCTAACT TCCCAATGAG TTATAGATGC
95641 TTATATACCA TTTTGTAGAT ACAGAAAGAA TTGGGGCTTA GATTCTGGTA AAACAGGTTA
95701 TGGGAGGCAA AAGAGGTTTG GCTTGCAAAG GTGGCCTTGT TAGGTAGGTG AAGCCTCCCT
95761 CAGAAAGAAC AGATGGTAAA TGTTCTTTTT ATGATTTTTA AGTGTGAGAC TCTCAGTCTC
95821 TCCTGGATCT GGGGAAAGGT ATAGAAAGGT GAGGAGGCAT GGCTGCATTA ATGGAGATTC
95881 TCTACAGATG TAAAATTTTT CCCATTTAAG GCAGCTTTGC AAGCCCATTT CTGCCTGCTG
95941 GCCAAGCAGC AGCCATTTCA AAATATGTCA AAGAAATATA TTTTGGGGTA AAATATTTTG
96001 ATTTCTTTTA GACTGGTGGC CTTATAAGAA AAGGAAGAGA CACCTGAGCT GACACACATA
96061 CCCTTGCTCT CTCAACATGT TATGATGCAG TAAGAAGGCC CTCACCAGT ACTAATTCCA
96121 TGCCCTTAGC TTCCCAAGTT CTAGAACAGT AGGAAATAAA TTTCTTTTCT TTAAGAGTTA
96181 GCCAGTCTGT GGTATTCTGT TATAGTATCA CAAAATGGAC TAAGTAACTA TATTATGATC
96241 ATCTTACATG ACTGATCCCT CCTACATCAT ACACATACAC AGGCCACATT TGGAACATTG
96301 TTAGAGGTTT CTCTGCCAG TACAAATGTA CTACAAATTA TATATGTATT TTTAAATTTT
96361 TGAGTATCTT CAATAGTATA TTTTCGTTAA CTTTGTAGT CAAAATGTCA TTATAACATG
96421 TATTCAATAT GCATAATTAT TAGTCAGATG TTTTACATTC TTTCTTCATA CTAAGTGATA
96481 TGGTTTGGAT ATTTGTCCCC TCTAAATCTC ATGTTGAAAT GTAATCTCCA ATGTTGGAAG
96541 TGAAGCCTGG TGAAAGGTTT TTGGATCGTG AGGGTGAACC CCTCATGAAG CGCACTCTTC
96601 AGGGTAATCA ATGGGTTCTC ACTTTGAGTT CACAAGAGAT CTGGTTCTTT AAAAGAGTGT
96661 GACACCTCCC CCATCTCTCT CGCTCAGCTC TCACCATATG ATATGCCTAC TCCCTCTTCA
96721 CCTTCCACCA TGATTGGAAG TTTCTGAGG ACTTGCCAGT AGCAGATGCC TGCACCACAC
96781 CTCCTGTACA GCCTGCACAA CCGTGAGCCA AAAAAAATTA CTTTCTTTTA TAAATTAGTC
96841 AGTTTCAGGG ATTCCCTTAT AGTAATGCRA GAACGAAC TAACACTAAG TCTATTTTCAT
96901 ATTTACAGAA TAGCTCAATC TGAAGTACCC TTTTCAACT TCACAGTAGC TACTTGTAGC
96961 TAGTGGGCAC TGATTTGGAG CGTGTTCAAG GGTGAATTGT ATTATGCAAT TAACAGATTT
97021 TTTTTATTGT TTTTCGAAAC CACGAGGCAT AGATTGTCTT ACTTTCTCTG CTCCTGGTGT
97081 TGGAGTTGTT ATTTGGGAAAC AACTTATTTT CCTCTTATAT TTATATGGAA TAAATAACCC
97141 CCAATATTTT CCTCCCCAAT ATCTGCCTTT TGTATGTTTT TTGAAGGCAA GTGCCTAGAA

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97201 TTTACTGTTT TTGAAGCACT TACTGAAAGG ATTGCCATCA AGTTGTTTTG CTAATAGTAC
97261 ATGCCAGGCG CTTGTTGGTT TGCTTAATTC AAGGTAACCT GGATGAGAAG AAGAGTTTTT
97321 CTCATCCATG GCTCAGTGGA GTATAGATTA CTGATATTGT GACTGGATGT ACTCCTGCTT
97381 TCTAGTCTGA GTTTTTGAAG CTACCCTTAA TCTTGTTTC AATTTTATCT AGCCCTGTAC
97441 ATATCCAAGG CTCTTTCCAA AATGGTCTAC GATTTGTTTA GGAAGTTAGA ATAGCTGTAC
97501 TTTCTGAACC ACCGTTCTTG ACATTTTCTG GACTTCAAAC ACATCCAGCA TTTTATCGAA
97561 GTATTTATCC TTCCTACTTG GCTGGCTTCT TCCTTGCTT CAGGTCTGAA TTCAAATGAC
97621 ATTCTCCTGA TGAAACTTTC CATCCTTATT TCTATTCTTT TTTCTTATCC CTTTCTTTA
97681 TTTTCTCCA CAGCACTCAT CACTTATCTC TACATTTTCA TTATGTATT ACCTTATTGT
97741 GCACCTCCCA CTACAAGACA AGTAGCACCG TAAGGAAACA GGTGTCTGCTG TTTTCTACTG
97801 CTATGCTCCC TGACCTAGA ACACCTCTCTG GCACCTAGCA GGTTTTCAGT AAATATATGC
97861 TGAACATAA ATGCTGGATA TACATCTCCC TCATGAACTC TCTAAATCCT TCTAATTTAC
97921 ATTGATCAAT CTTCTTTTCC ATGTGCTTTT GTATGATTTA TTGCTCAAAA TCTTTATTTT
97981 ATATGCAGAA CGTGCACTGC TATTTAATCT TCATGTACGT AAGTCCCTCC TTCTCTGAGT
98041 ATAATCTCTT CAGGGCACTA TCTGAGATAA CTTTTTAACA TCTCCATCAT GAATCTTGTA
98101 CTTTTTCAAA GAAAATGAGC CAGTGATTAC TGATGTTTAC GGTATTGTT GAGGGTGAAG
98161 ATCATTATAA TTTTGAARAG GGAAGTTGAA TATTGTGAAG GGAAAGATAA CACTAGAGTC
98221 AGAAGACTTG GGAGAAGGCA AAAAAACAAC TAAAAATGAG CACTTTTAGT CTCCTGACAG
98281 TTTCTCTGAA TCAAATCCAT AGTCTGTGA CAGCGTTGGC TTAGAAGCAG ATTTTTTTTT
98341 TTTTTTTTTT TGAAATGGAG TTTGCTCTT GCCCAGGCTG GAGTGCAGTG GCACGATCTC
98401 GGCTCACTGC AACCTCTGTC TCCAGGGTTC AAGCGATTCT CCTGCTTCAG CCTATGGAGT
98461 AGCTGGGATT ACAGGCTCCC ACAACCACGC CCAGCTAATT TTTTGTATTT TTAGTGAAGA
98521 CTGGGGTTTC ACCATGTTGG CCAGGCTGGT TACGAACTCC TGTCTCAAG TGATCTGCCC
98581 GCCTTGGCCT CCCAAAGTGT TGGGATTACA GGCATCAGCC ACCGTGCCCC GCCAGGAGCA
98641 GATTTTTTTT CACTCATGTT TCTTTTCTT TCTGTCATCC TGTTTCAGTA TAAGCAGACC
98701 ACAGATAGAA GTAGTAGATA CCTCAGAAAT TCCTGGAATA ATTAATCCAC GTTCATCTGT
98761 ACTCCATCTG CTCCTATCTC ATGGAATATA AAAGGAAAAA CACCAAGATT TCCCTAGGCA
98821 ATCTGTCTTG ATTTTAGGTT CCTCAACAGG AGAGCCAGAC AATGGCTGTA ATAATATTGT
98881 CCCGGCCAAG GAAAAACTTC CCCTTTGCC TCCCAAGGTT TATGGAAAAT TACTGGCAAA
98941 ACACAGATTA ACTGGAGAAA AGGCATATAT ATTTATTTCA TCACAATTTT ACAGGAGATT
99001 TTAGAATTAA GACTGAAAGA TACAGGGGAA ATTGCCCAT TTTATGCTTA GGTTCACAA
99061 GATAAACAGC TGTATAGGT ACGATCTAAT GCTAACAGAC TGAGTGGGGA AGCCCCGCAA
99121 GGCTTGTCTG TCAAGATTCT TCTTGACCTC TCAGTGCAGC ATTTCTTCT TCTGGTTATA
99181 GGACAAGACT CTCTTTTAGA ATGGGGGGTC TTATGACCTA CAGGCAACA AGGTAGTTA
99241 GAGTAATACT TTTAGGTTTT ATGGCTGGTT CTAGGGAAAA GGAGTTCTGG TTTGTATGGC
99301 CTACCTTGAG GAGGAATTCT GGTTTCTATG GCTAGACTTT GGGGAGAATG GGACTTACAG
99361 ACAGGAAGGC AGAAGGTGGT CAGTGAACA CTTTTATAAT CATAATCCCA TTTTGAGTAT
99421 TTCTGTGTTA TGGAATGTT GTTCTCTCAT TTCCTGAAAG ATTCCAGAGA CTCCTCATTC
99481 AGTGTGTGTA AAAAGTTCAG GAAATGCAAC TCAAAAATGT GCCACTTTGT TACGCTGATT
99541 TCTTTGAACT GAGGGCACCT AGGAAACAGT AAATTCAGG AAGGGCTTTC GCTGAACTCT
99601 AATCAAAAAT TTGAAAATTA AAAAAAATT CAAAAAGGAA TTTAGTTGTT AAGATTCACT
99661 TCCCTGGGGA ATCTCATCAA CCAGAGAAGA TTAAGTGTAT CACAGGAGAG GAGACTGGTG
99721 GTTAACACCA TCTAACAGA CTTTGTACA GCTGTCACCT ATTCTTTGAA ACACCCATTT
99781 ATTTTCTCC AAAATCATAT ACTCTCCCT AAGTTGCCTA CATCCCCCTT CTTCTCCCT
99841 TATGAATCAA GAGAGCTTAT AAGCTTCTAC AGTTCAGTGG GATTTGGGGT ATTCGCTTTT
99901 CTTCCCTCCC ACTCCCCCTC CCCTTTTTTT GTCTTTGAGA CACAGTCTTC TGGCTCTGTC
99961 GCCCACGCTG GAGTGTGGTG GCTCTATGTG AACTCACTGC AACCTCCTCC TCTCGGGTTC
100021 AAGCGATCCT CCCACCTCAG CTTCTCGAGT AACTGGAAC ACAGGCGTGC ACTACCAAGC
100081 CCGGCTTTTT TTTTCTTTT TCTCCCCGT TTCTTTTTTG GTTATTTTAC TGGAGACAGG
100141 GTTTCTCCAT GTTGTCCACG CTGGTCTCGA ACGCCTGACC CGCCGCTCTC GGECTCCCAA
100201 AGTGCTGGTA TTACGGGCAT GAGCCACTGC GCCCGATTG AAGGACCTCT TAAATATCTA
100261 TTTAGAAATT GGTCGGAGTC CACTCCTTTC CAAAAACATG AGTCACAATC CGGAAAAAGC
100321 ACGAGCGGCT GAAAGTCAAA ATAACCAGAA CAAAACCTCC ACTCATGCTT AAAAAAGGTA
100381 TTTTGACAAA ATCCTAATTC GGCCAATTAT TATTAGTATT CAAGTCGAAG GCTCGTCAAG

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100441	CCAGACTGGG	GATTGGGTCA	AACATAAACC	TTACACCAGA	CGGAAGGATT	ACATGCAAAT
100501	GAAGGATGCA	GATTCTGATT	TCCCATTGGG	TATTTGACAT	TAGCCAATGG	GAGAATTCCCT
100561	CACAGCCTAC	CTCCAGTCAG	TATAAATACT	TCTCTGCCTT	GCGTTCTAAT	GTAGTTTCAT
100621	TACATTTTCT	TGTGGCGATT	TTCCCTTATC	AGAAGTAGTT	ATGTCTGGTC	GCGGCAAACA
100681	AGGCGGTAAA	GCTCGCGCCA	AGGCTAAGAC	TCGGTCTTCT	CGTGCAGGTT	TGCAGTTTCC
100741	TGTGGGCCGA	GTGCACCGCC	TGCTCCGCAA	AGGCAACTAC	TCCGAGCGCG	TCGGGGCTGG
100801	CGCGCCGGTG	TATCTCGCGG	CGGTGCTTGA	GTACCTGACC	GCCGAGATCC	TGGAGCTGGC
100861	GGGCAATGCG	GCCCGCGACA	ACAAGAAGAC	CCGCATCATC	CCGCGCCACC	TGCAATTGGC
100921	CATCCGCAAT	GACGAGGAGC	TTAATAAACT	CTTGGGGCGT	GTGACCATCG	CGCAGGGTGG
100981	CGTTTTGCCT	AATATTTCAGG	CGGTGCTGCT	GCCTAAGAAA	ACTGAGAGCC	ATCATAAGGC
101041	CAAGGGAAAG	TGAAGAGTTA	ACGCTTCATG	CACTGCTGTT	TTTCTGTCAG	CAGACAAAAT
101101	CAGCCTAACA	GCAAAGGCTC	TTTTCAGAGC	CACCTACGAC	TTCCATTAAA	TGAGCTGTTG
101161	TGCTTTGGAT	TATGCCGCCC	ATAAAGATGT	TTTTGAGGTG	TTTTTAATGG	CTTTGAGTGT
101221	GGCACTTTTA	GTAATTTGTC	CTGCAGAAAT	TAGATCCATA	GAAACCTCAG	GAATTTCTAGG
101281	TATGTGGGAG	AAGTGCCATG	CAGCACAAAA	CATGTTTACA	GGGGTGATTG	GCGTTAAGTT
101341	TCACACACAG	CAGTTACTAC	ATTTAGAGG	AAGGAAATTA	TACCCATGAG	TGCATTCCCTA
101401	ACTATCTTGA	ATGGAAGTGT	TAAAACCCGC	ATGCCCCACA	CAAGTTTGAA	TATGTCATAC
101461	CATTTGCTGT	AGCAATTAAT	GGCATAACAC	ATTGAGAGCA	CACACATTAC	CACCTGAACAT
101521	TTGAGTATGT	ATTTCCCAA	ATGAGCTTTT	TTCCAGTTTG	GGGATGTTTT	GCTTTGTTTT
101581	GGGGTGGAGT	CTCCCTCTCG	CCCAAGCTGC	AGTGCAGCGG	CGTGATAACA	GCTCACTGTA
101641	ACCTCGAACT	CGGGCTCAAG	CGATCCTCTT	GACAGCCTTC	TGAGTAGCTG	GGATTACAGG
101701	CGAGAGCCGC	CACGCCCGGC	TAAGAGCATT	TTTCTAATTG	CCCACACTTC	TTATGCGACA
101761	CCCAGAAAA	TACAATTTTA	AATAAAGCGC	ATATGCAAAT	TTCCCTAATC	GCTCCAATA
101821	TTCTCTGATT	TCTTTTTTAT	ATTTTAACTA	GAAACAATTG	GAGGTTTCCG	CGTTGCTTTG
101881	TGTGGTTGTA	AATTTTAAGA	CTTCAGGAAA	CTTTTCCAGT	ACAAGACTTG	TCCACAGTGG
101941	ATATAGCAGC	TAAGGGGTTA	ACAAATATGAC	GTACAGAGTAG	CTACGGTAAT	GGGAGGAGC
102001	CTCTCTTAAT	CTGCAACCAG	GCACAGAGAT	GGACCAATCC	AAGAAGGGCG	CGGGGATTTT
102061	TGAATTTTCT	TGGGTCCAAT	AGTTGGTGGT	CTGACTCTAT	AAAAGAAGAG	TAGCTCTTTC
102121	CTTTCCTCCA	CAGACGTCTC	TGCAGGCAAG	CTTTTCTGTG	GTTTTGCCAT	GGCTCGTACT
102181	AAACAGACAG	CTCGGAAATC	CACCGGCGGT	AAAGCGCCAC	GCAAGCAGCT	GGCTACCAAG
102241	GCTGCTCGCA	AGAGCGCGCC	GGCTACCGGC	GGCGTGAAAA	AGCCTCACCG	TTACCGCCCCG
102301	GGCACTGTGG	CTCTGCGCGA	GATCCGCCGC	TACCAAAAGT	CGACCGAGTT	GCTGATTCCG
102361	AAGCTGCCGT	TCCAGCGCCT	GGTGCGAGAA	ATCGCCCAAG	ACTTCAAGAC	CGATCTTCGC
102421	TTCCAGAGCT	CTGCGGTGAT	GGCGCTGCAG	GAGGCTGTG	AGGCCTACTT	GGTAGGGCTC
102481	TTTGAGGACA	CAAACCTTTG	CGCCATCCAT	GCTAAGCGAG	TGACTATTAT	GCCCCAAGAC
102541	ATCCAGCTCG	CTCGCCGCAT	TCGCGGAGAA	AGAGCGTAAA	TGTAAAGTCA	CTTTTCTATC
102601	AGTCTTAAAA	CCCAAAGGCT	CTTTTCAGAG	CCACCCACTT	ATTCCAACGA	AAGTAGCTGT
102661	GATAATTTTT	TGTTGTCTTA	ACAGAACAAA	TTTCTAAGGA	CCCCCCCCGA	AAGCATTAGA
102721	CTATGGTCTT	AAAGTTGATT	AACAGAAATA	ACGTTTGGT	CAGTCTTGCA	GTGTAGGTTA
102781	TTTCTGACCT	TATTAAGGTG	CTATTTGGAG	AGAAGCTGTG	TAAGTCCACT	ATCATTACAGG
102841	CCTCTAGCTT	GCTATGATTA	GCATTTGTTT	AAACAACTTT	GTAAGAGTAA	GGGAAAAATC
102901	TGGTAAGTAG	TTAACTGGCG	CTTACTAGGC	ATTTTGTCAA	AGCTTTGAAA	AGATTAGAAA
102961	ATTGTGTCTT	GCGAGTTCCA	GTGTCTTCCT	CAAAATGCTT	AGGAAGATTT	TCTCAGCTCA
103021	ATACATAGTC	CCCTAGGTTT	TCTCATATAT	TATATATATA	TATATATATA	TATATACTGT
103081	TAAATTCATT	TGGCTGTAA	CATTAACCTG	AAATTTATTC	TGGTGCAAAA	TGTGAGGCAG
103141	GGATCTAACT	GGCTCTCATT	TTATCCATAG	CTAGCTACCC	ACTTTAAATC	TGTCAGTCTG
103201	TCGACCAAGC	ATAATTTAAT	CCCTTATATA	TGAATTTTTA	TATGTGTGGC	TTTGCTTGTA
103261	AATAGTCTAT	CTGGTTGCAT	TGCTTTGTCT	CCTCTAGGAC	TATGCACCAT	GACATGCCAC
103321	ATTCTTTTTT	TCAGTACTTC	TTGCCTGTAG	TTATTAAAA	CTAGAATTTA	CAAGTTTTAA
103381	CCATTTTCTT	TCTGTTGATC	TTGCTTTTCG	GTTTTGGAGG	TTGGGGATTG	AGTACTGGAA
103441	GAAAAATTTAG	AGGGATGGGA	ATACTGTACG	CAAACAAAAG	TAATATTTAC	TTTAAATTTT
103501	TTATATTTTG	TATTTTTTTA	TCATATAGCT	TTACATCAC	ATTTTACAGA	CTAACTTTAG
103561	AACAACCACA	GAATGTCCAA	CATTAAAACT	ACTAATTCCA	AAGACCTTGC	CTACACTTCT
103621	TTTTTACAAT	AAATATTTT	TACACCTAAC	ATTCTTTCTT	GGCCTACATC	TAGAATGTAA

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103681	ACTGATGTAC	CATACTAAAA	TCGCCTGACC	AACTGTCAAC	AACAACAAAT	CACACACACA
103741	AAAGATTAAA	TTTGAATTGC	ATCGTTTACT	TAAATTCATT	TGTGTTCCAG	CTTTTAATAA
103801	GGCAGTTTTT	GGTTTATAAA	GTAATATTTG	CATTTTAAAA	ATTATGAAAA	TGAATATGTC
103861	AGTTTGTTTT	ATGATTCGTT	TTTCTTGACT	CTTATACAAG	CGACTCTAAC	TGGCATAGAC
103921	ATTTGTTATC	CACAGACAGT	ATAGATATGT	TAGAGATGCC	AATGGACTTG	GTCTATGCCA
103981	AGGTGACTAC	TCACAAGCTC	TGGGCCCAGC	TGAAGGTCAA	GTATTTTTTT	TCCAGTTATA
104041	GATGTGCTGG	ATCTGATGTA	TAGCGCTTGA	CTTTTTATAT	TTTCTTTATC	TGTAGGAAAC
104101	AAATGTGTTG	GAGGTACTGG	GTCTGACGAA	TAGCATAAAA	GAATAAAGTT	ACATTACTGT
104161	CTGAGGATCA	GATGGACAGG	GGTGGTAGC	TCAGTCCAGC	TATTTTCCAC	TCCCTCACTT
104221	ACATTCTTTG	CCCCCTCCTC	AACAGAACAA	GGATTCTGCT	GTAACCTCTT	ATTGACAGTT
104281	GATATTTAAA	AATTAACGAA	TGGATGAAAT	TCTCATTTGT	GAAAGAAAAT	TTATTGAGCA
104341	TTTTGTATTT	GTGAGTAGTG	CAAAACATTTT	AATATTATAT	TAAGAATCTA	TTGTTTTGTA
104401	TTAGAGGAGT	AATTAAGGAG	AGATTGGAGA	CAAAAAGGGG	GTGTTGTTTG	CAGAATATAC
104461	CATCCAAAAA	TAGACCACTG	TGGGATCAGG	ATTCTTTTGA	GCTAAAGGCA	CTTCAAAAAC
104521	AGCATTCAAG	AAGGGAATTC	TTCTAAACTT	TTCTTTCTGA	AAACAGGAGA	TAAAAGTTCC
104581	AATGTGAAAA	ATGCTCTGCT	TGTACCAGGT	GAAAAGACAT	ATTCTTCAGC	CCAGAGGCAT
104641	AGATGAGATA	ATTCTGCACA	AACACAGCAG	GGAGTCATAG	CCGAGAGACT	TCTATACACA
104701	AACAAACCTT	GTTAAAATAA	TCATATATTC	CTTAAATCTC	CTCATATGGT	TTACTTTCCC
104761	ACAATTGCCT	CTCTTAACT	TAATGTGAAA	GCATTTAGCT	TTTGCCATTT	CTTTGGGGCT
104821	TCACTTTTTT	ATGAGGGTTC	TCTGTGCCCA	TAAAATTTAC	ATTAAATACA	TTTGTATGCT
104881	TTCACTCTGC	TAATCTGTTT	TATGGCAAAT	GAATTATCAG	GTCCAGCTGG	AGACCCTAAC
104941	AGAGTAGAGG	TAAAATTTTG	CTCCCTACA	AGATAGAGAT	TGTGTGCATT	AAATGTTGTT
105001	TGTTCCCACT	TGTTCACTTT	GTCAAGCCTC	TGAGCCGAAG	CTAAGCCATC	ATATCCCCTG
105061	TGAACTGCAC	GTATGCCTCT	AGATGGCCTG	AAGTAACTGA	AGAAAACAAA	AAGAAGTGAA
105121	AATGCCCTGT	TCCTGCCTTA	ACTGATGACA	TTACCTTGTT	AAATTCCTTC	TCCTGGCTCA
105181	TCCTGACTCA	AAAGCTCCCC	CACTGAGCAC	CTTGTGACCC	CCACCCCTGC	CAGCCAGAGA
105241	ACAACCCCTT	TTGACTGTAA	TTTTCCACTA	TCTACCCAAA	TCTTATAAAA	CGGACCCACC
105301	CCATCTCCCT	TCGCTGACTC	TTTTCGGACT	CAGCCCGCCT	GCACCCAGGT	AGAATAAACA
105361	GCCTTGTTGC	TCACACAAAC	CCTGTTTGAT	GGTCTCTTCA	CACGGACGCG	CCTGAAACAG
105421	TTTAACAGGG	TTTTTCCTGC	CCAGTCACAA	CAAAGTGATG	TTATGCTGCA	GGCTGAAGTT
105481	TACAGCTAAT	GCTGTTGAAG	TCTAAAATCA	GTTTTGTTTT	GTTAGATTGG	GGTGAGATGG
105541	CTAAGATTCT	CAGAGAAAGA	AGTCAAAGTTT	GGGGTGCAAT	TTTCAGACTT	AAAAATTTAG
105601	CAGTAGCCCT	TGCAGTTTTT	CCAATAGAAG	TGATTTAAGA	ATGTTTTTCAG	GAAATTTAAA
105661	ACAACAGTGA	GAAGCGTGTA	TGGAGAGTTG	AACTACACTC	CAGACTTGGC	TATAGGAAAG
105721	CACGAATGCT	GCTATTGTAT	TGCACCTTGG	AAAAGAGAAC	AAAGGAATAT	TTTCGGACAA
105781	TTTTAACATG	TCACATATGA	AAAGCTAAAC	GGAATCTGTC	AACACCTTGT	ACGTTATTAC
105841	AGGCTGTGAT	TTTAAAAAAA	CAATCCTTAC	TAATACATAC	ATAGTTGCTG	CTAGCAATAT
105901	AGTGTTGGGA	GTAAAAACAC	GAAAATGAGA	GTTCAGGACA	ATATCCCAAC	TCTGAGCAGA
105961	TTTTTTTAAAG	TAGTAACATC	TAAAATTTAA	CCATATTATG	TAATATTTAT	TTCTTTTCCA
106021	CAGTCTCTTC	TCATGCCTCG	TTCACTTAGG	CTAATTAAAA	GTCCCCTGAG	TATCATCATA
106081	ACCCGATTTA	CAGATGAAGG	CACGGTTGCA	ATGAGCTATC	ACCCCTCTCT	GAATGAGACA
106141	GTACAGTGTG	AAGGATAGCA	AAACTCCACT	CCCATCCTCT	TAGGGCTCTG	GCTGGACCAG
106201	CAAATTAAAT	TAATGTAAAA	TGGATTAACA	GGAGAAAGGT	ATATGCATTT	ATTTAACACA
106261	GGTTTTACGT	GACACAGGTG	CTCTCATAAG	GTAATGAAAG	CCCCAAAAAA	GCAGTTAGCT
106321	ACTTATATAA	TGAATTGGAC	AATTAGTAAA	ATGTAAAAAT	GCGCTAAAGC	AAAGGGATTT
106381	AGGCTAGAAT	ATATAACTGT	GTAGAGAAGC	GCCCAGCAAG	GGCTAGTGCA	AGGTTTGTAC
106441	AGAATTCTCT	TGGCCTCAGC	CTCCTATCCT	TGAGAAGAAT	GTTGCTTTTT	TTAAACTACA
106501	GTGAGAACAT	CTTTCATATG	AGAATTTTAC	CTACTGCTTC	TAAGAAACAG	GTCAGCTTTC
106561	AAGAAAACAT	AAGGCCAGAG	TGATCTTTTC	ACGCCTGCTC	TTTTAAGTAC	CTTTGAATAG
106621	TCAATATGTC	TTCAAGCACT	TGAAAGACTT	AAAAAGTTTA	CCACTCCGGC	ATATTAGTGA
106681	AAGCCCTTAA	TATAAGCCCT	TATTAAAAAT	CTCAGTCGAG	GGTATAAATT	CAGATTCAAA
106741	TAGTAGTGTC	GTAAACGGGA	GGGAAAAACT	AAAGGGATTA	AAAAGTGAAA	CTATTGTGTT
106801	CTCCCTCGCA	GTCCTTAGGT	CACTGCCCCT	CGAGGGGCGG	AGCAAAAAGT	GAGGCAGCAA
106861	CGCCTCCTTA	TCCTCGCTCC	CGCTTTCAGT	TCTCAATAAG	GTCCGATGTT	CGTGTATAAA

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106921 TGCTCGTGGC TTGCTTTCTT TTCGCGTACC TGGTTTTTGT TGTACAGCTGG TTAGACATGT
 106981 CTGGTCGCGG CAAAGGCGGT AAAGGTTTGG GTAAGGGAGG TGCCAAGCGT CACCGAAAAG
 107041 TGCTGCGGGA TAACATCCAA GGCATCACCA AACCAGCCAT TCGGCGCCTT GCTAGGCGTG
 107101 GTGGGGTTAA GCGAATTTCC GGTFTGATTT ATGAGGAGAC TCGTGGCGTT CTCAAGGTGT
 107161 TTCTGGAGAA CGTGATCCGG GACGCCGTGA CCTACACGGA GCACGCCAAG CGCAAGACTG
 107221 TCACTGCCAT GGATGTGGT TACGCGCTCA AGCGTCAAGG ACGCACTCTG TACGGCTTCG
 107281 GCGGTTAATC TTTTCGTCAG TTTTCTTCCA ATGGCCCTTT TCAGGGCCCG CCCTCCCTC
 107341 TCAGAAAGAG CTGTGATTGT ATTCTTTCGG ATGGTAACAT CTCATGGCT TTACTCGGCT
 107401 ATTCTGCCTA GTATGTAGAA CTATTATAAA CCAGTTGGGA GAGACCAGGT TGTGTTGGTCT
 107461 GAGTGGCTGC TAAAGCAGAA ATCAGCTAAG TAAACGAGGT CTCCGAGATA AGTGAGCTAT
 107521 AAACCTCAAT GCTATAGTTT TGACATGTCA AGCAACTTAA CGTGCAGCGC GAGTCCGATA
 107581 AATGAGTAGC TCAGCTTTTT AGTTTAAAAA ACGAGTTGTG CGTTATTTGT ACGAGAGCCT
 107641 AAGATGCTAG CTGCCTGGAA CTGAGTAGGT GGATTAAAAA GGGTGTGAGG TCTGTTTTCC
 107701 CAGGCGTATC TGACTTAACG TCAGCAAAAG CTGTACTTTT AGCTTCCCTG GTAACACCTG
 107761 CCGTCCTTAA CCGCCCCCTG CCGGTAGCGC CAGAAGCCTT TACTTCCATT TCTAGTTGAG
 107821 CTTGGCGTCC TGCTGAGTGA CGTCACCTCC CCCTTCTCTG GAGTAGGACT GGCGGTTAAA
 107881 GCTGCTTTGC TATTTTCAGT CCTCAGGCTG GAGGCTCCCC TAAGCAGGCT GCCTACGCAG
 107941 TTCGTAAATT CCCACTTAGT AGACTAAGGG AGTCTGTTTT ATAAATAAGG ACTCAAATTT
 108001 CTTCTGACTC CGAGGTCCGT GGCAGCAGCT ATAAGATGGA AGCCCCCTCT GATGTAAGAT
 108061 TCTCAGATGA CTTCATCTT CACTGTACCT GTCAACCCAA TAGTCTTCTA TTCCTGCCTT
 108121 AAATTGTAAA TTCCAAAAC TATTGATGGA TACTTCAAGC AAAAAATCA ACTTTGTTTT CTGGTTACTT
 108181 TGTCAAAGTT AGGTGACCAG ATTTTGTAGG GTCAGCCAAA TATTGAGCAT CTTTGATTTA
 108241 GTACAAAATA TATTGATGGC TACTTCAGCA AAAAAATCA ACTTTGTTTT CTGGTTACTT
 108301 TGCTAACAG CTCTCCTGA CAGGAGGATA TAGTGAATAG GCAGTTGAAT AAGTGAGTTC
 108361 GGGTGAGAGG TCTGAGCTGG AGATAAAAAA GTGTGAGTCA TCAGCAGATA AATAAATGCT
 108421 GAGACCAGAT GAGATGGCTA AAAACTGAAA CATAATGTAG TGCAGCATTG TTTGTAATAG
 108481 TAAATGAGTG GCAACTGTAA AGTTTTATC AGAAAGGACT AGAGTGATCT ATACATCCAT
 108541 AAAATAGAGT ATTTCTCTAC ACAGCCCTAC TAAAGAATGA GAAAGCTGTA CTCCACTACA
 108601 TACTCTGGTG TACTCTGGCT CAGTTCTTGG ACTCCTCTTT TCTTGGCTAA CTCAACTGGC
 108661 CTCACCACTT ACATGCTCTG TGCTCTGTCA AATAGTTTGT TCAACAGAAC ACCACGGCCT
 108721 AGCTGTAAGT GCCACGTTAA CTTCTAGCAA TGCCAAAGCC TGTGATAGTG GCAGCTTCGG
 108781 GCTGTTTTCT ATTCCCGGGA TGCCTAACCA CCTCTCCAAA TTCTATCAGT TTGCTTCCAC
 108841 CCACTTCAAG CTTCAGAACG AAACATAGAG CTTAAGAAAT ATAGGCCCGG CAAGGTGGCT

108901 CACGCCTGTA ATCCCGGCAC TTTGGAAAGC TGAGCCTGGT GGATCACCTG GGGTCAGGGG
 108961 TTCGAGACCA GCCTGGCCAA TATTGTGAAA CCCCCTCTCT ACTAAAAAAA AAAAAAAAT
 109021 TAGCTGGGCA TGGTTGCGGG CGACTGTAAT CCAAGCTACT CGGGAGGGTG AGACAGGAGA
 109081 ATAGCTTGAA CTCGGGAGGC AGAAGTTGCA GTGAGTTGAG ATCGCGCTAT TACACTTAGG
 109141 CCTGGGAGAC AAGAGTGAAA CTGTGCTCTT AAATAAGTGT TTGCAATTAT AAACCATCTC
 109201 CCTGACCTTA AATCTCTAGA CTCATATACA ACTGCATATT TGATGTATCT AATTGAATAA
 109261 TGGGCATCTC GAACCTGTCC AAAATATGTT TATACGTAAA CACCAAGTCT GTTCTTCCCTC
 109321 TGATATTTGT CATGTCAATC AATAGAACTC CATTCTTCAA GCAGCTTGGG CCAGGAATTG
 109381 TGCAATATTG TTTGTCTCTG GCTTCTTACA ACTTTCACCC AATGCAGTCA GCTCTGTTGA
 109441 AAATCAATCA GAATACCTTT CATTGTTTTC TTTGCTGCTT CTCTAGGAGC AAGCTGCCAT
 109501 GGCGGTTTGT CTGAATGACC ACAGTGACCC CAAACTGGTC TTTGTTTTCA CTTTAAATCC

109561 CCCTGTCATA CAGTTTTTTC TCTATCCAGC ATCAACAGTG ATCCTTTTTG AAGGTATTAT
 109621 GTCCACTGTC TGCTGAAAAG ATTCCACTGG CTTTCCATCA CCTTCATAAT AAAAACCAGC
 109681 ATCCTTATCA TAGCCTACAA GTAAGATGAC CAACCATTAC AGTTTGCCCTG ACTCTCAGGG
 109741 GTTCTCAGG GTGTAAGACT TACAGTGCTG AAACCTAGAA AGTTCCAAGC AAACCTAGGAT
 109801 GAGCTGCTCA ACCTACTAGA TCTGTACTCT GGCTACCCCTC TGACCTCATT CTCTTCGCAG
 109861 TTCTTTCTCT TCACTGACCT TGCTGTTTCT GGAATGGACC AAGCATTTCC AGCATCAGCA
 109921 CCTTTATATC TATTCTTTCT CCCTAGAAGG GTCTTGCTCT GGATATCTGA ATGGCTCTAG
 109981 ATCTCATTTT ATTCAAGCCT CTCCTCAAAT ACCAACCTTA CGAAAGAGAC TTCCCATAT
 110041 CATCCCTTGT AAAATAAGCT TTTCTGCTCA TTTAGCATAT ATATATATAG TTGACTATCC
 110101 TCAATAGCAT ATATATATAA CATTTCCTCA CCTAGAATTA TATATGTAAT AATATATTTA

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110161 ACAAAAAATA CATATAACTA GATATATTTT ATTTTGTGTT TGTTCTCTCT CCCCCAACTG
110221 GAATATATTT TTTGAAGGTA GGGACTTTGT TTTGTCCCAG AAGTATCCCT AGCACCTTGA
110281 ACAGGGCTGA CGTTTAAACAG GTAGTTTATG GAGGTTTGT GAATGAAAGG ATGTGTGAAT
110341 TTTCTATGTA AGTCTCCAGG CTCTCCACTA AGCCCACCAG AATGCTAACA CAATCAATTC
110401 CCCATCTCAT TCCTTGACCT GCCACTGCCT GAAGCAATCA GCGTGCAGTT TCTCTTTAGA
110461 AAATCTGGGG GATAGTCTAG GGGTTGCAAA TTAAGCAACA TTATCTTTGT TCTGAACAAG
110521 GACTGCATGA GTGTTAGGAC TGAAGAAGGC CCAAGGTGGT GGTGGGTATG CCTAAGATGA
110581 GTATGACATA TCAGCAATGC TATGAACATA GCAATGCTAT GAAAGGCCAG GCAAAACGTA
110641 ACAGGAGCTA GTCGTGGCTT ATTGTTACAA CGACTATACC TCCCATATGG GTAATCGATA
110701 TCCACACACC CCTCTACATT GACTCTGGAA TTCAGGAAAG GGAATTAAAA TTTTCTAACT
110761 TATGTACCCC AATGATTTCA ACAATATCTG GCATATGAGA TCAATAAATA TCTTTAAAT
110821 ACCAACTAAG AAAGACATAA AATGACCCAC CCTCCATACC AGGCTCATTT TTGCTCCTCT
110881 GATTCTTGAA ACTATCCAGA ATGCAGCTAT GAATCTCTC CATTGTCACT TTTAAATTAA
110941 GCCAAGCTGG GTACTTGTGT AATTCCTCAA GAAATCCTGG ATGAAAACCTG TCAGGTGGAA
111001 AACAGGACCT CAAAATAAAG AGACATCCAT CACTGAAGCT AACATCGTGA GGCTGAAATC
111061 AGTCCTATAA CAATGGTACC AAAAAGAGCA CAATGAGAGG CATTGTGAA TATTACTCA
111121 GATGAGAGTA AGATATTTCC CTATCAGCTA ACCTGAAGTT CACATCCCTT TTCCAGCTGA
111181 GTTCTGAAGC TAGATGTACT TAACTGGAAC ACATAACTGC ATCAGGAACA TCCTTTAAAA
111241 CTATGGCTAC CATGGCTTGA CTGGACAAAC CCCAGGCTTC CAGGTTTAGC ACAGGTGGCC
111301 CTTACAGAC CAACATTGCC TATGCTACCA ACCTCATGTC CTACCACCCT GCTTGCATCA
111361 TTTCTCTCTC TGCATATATA AAAATATATG TGTATGTATA TAATCAGCTT TATTGATATT
111421 TAATGTACCA CAAAATTTGC CCACCTTAGG TACAGTTCAA TGAATTTTAC CGTGTTTTCT
111481 TAGTTGTACA ACCATCATCA CAATTTAATT TCGGAATATT TCTATCACC AAATTTCCAT
111541 TTCTGCGTAA AGGGGGAAAA AAAAAGGTTA ACTGCTGAAG GCCGCGTAA CACTGAAAAA
111601 GGTGCCTTTT CTCTCTAAAA CAGATTTTAA TCTCCCCTGA ATTTAGTGTC CTGGGTATTTC
111661 CAGGAGTCTG AATAGGGTTT CAATTTTCAG GGTCTTTTTA ATAGAGTAAA ACTGTATTGG
111721 TGGCGATAAA TTTAGTATTG CTCTCAGTAC ATGATTGAGG GATACTTAAA TGCTCTGTG
111781 ATTTTATTTT ATAATCGCTA AAAGATGGTT TTTTTTTTTT CTAAACAGG GTTTTTGTTT
111841 TTTCTCAATA AGCTTCTTAG CTCTCCCTCC GGCTCCCTGG CTGCTCAG GAAATATTAG
111901 CTGCAGTT CTGATTGGTT GACAGCTACG AATGGCCCTC ATTGATTGGG CAGCGCTTCT
111961 TTGTCCCTTG GAAACTAATA CAAATTTTTA AACTACTTT TTTTCCACTC TTTCTTCAGA
112021 GTTGGAATAT CGTTGCTCCC CTACCATAT GTAGTGAGTG GAGGGCAAC TTGGAGTTCC
112081 CCTAATCTTT CCTTTTTAGG ATGTCAGCTC AGTATCATT ATCTTAATTA CACATTGAGC
112141 TTCTTGACTT AATGGATACA GCTCTTCTTT TGTTTAGTTG GGCGGCCCTG AAAAGGGCCT
112201 TTGGTTCAGA AATGCAAGCT GTGGAGAAAT CAGCAACCTT AACCGCCAAA GCCATAAAGG
112261 GTGCGTCCCT GGCGCTTAAG CGCGTAGACC ACGTCCATGG CAGTGACTGT CTTGCGCTTG
112321 GCGTGCTCCG TATAGGTGAC AGCGTCACGG ATCAGGTTCT CCAAAAACAC CTTGAGCACC
112381 CCGCGAGTCT CCTCGTAGAT CAGACCAGAG ATCCGCTTCA CACCGCCACG CCGGGCCAGA
112441 CGCCGGATGG CCGGCTTGGT GATGCCCTGG ATGTTGTCAC GCAACACCTT GCGGTGGCGC
112501 TTGGCACCCC CCTTACCCAA ACCCTTCCCG CCCTTACCAC GTCCAGACAT GACTTCCCAA
112561 GAAGTGAACC AAGAGCAAGT GAGAGAATAG GAAACCGATC TTTATATATC TACGTTACCC
112621 CTGCCCCCAC CTCCAGCGGA CACTGAGACT GAAAAGCGCG CAGGCGGGAA ATGTGACGCC
112681 TACAGTCCGC TCCTTTAACC CCTCTCCAA GCCCCAGGAA ATGGCGGGAG CAGCGATTGG
112741 GGGAGGGTGG GGAGATGAGG GTGGGACCAA GCAGGCTTGA CCAATGGCCT TTATTTTCTT
112801 AACAGAGCTA CAGGCTTTGA GGAACCTGGT TAAGAATTAA ATGTAAACCC ATTCTGACTC
112861 CAGAATTATT TTAAGTCGAA CTTTTTTTTT AACCGAATCT CTCTGTCGCC CAGACTGGAG
112921 TACATTAGAG CCATCTCGAT TCACTGAAAC CTCTGCCTCT CAGGTTCAAG TGTTTCTCCT
112981 GCCTCAGCCT TCAGAGTGTA GCTGGGATTA CAAGCGCTCG CCGTCGCGCC CGGCGTGT
113041 TTGTATTTTT CGTAGAGACG GGATTTCGGC ATGTTGGCCA GGCTGATCCC GAACTCCTGA
113101 TTTCTGGTAA TCCGCCCGCC TCAGCCTCTC AAAGTGCTTG AATTACAGGC GTGAGTCACC
113161 GCGACCGGCC GAAATCGATT GGTTTTGAAG CCTTCAGTAG CATTAAAAACG AAAAGTGCTC
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113281 TGGCTCTGAA AAGAGCCTTT GCTTGGACCG TCAGAGAGAC CACAGTAATC ACGCCCTCTC
113341 TCCGCGGATG CCGCGGGCGA GCTGGATGTC CTGGGCATG ATAGTGACGC GCTTGGCGTG

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113401 GATGGCGCAC AGGTTAGTGT CCTCAAATAG CCCTACCAAG TAGGCCTCGC ACGCCTCCTG
113461 CAGAGCCATC ACAGCGGAGC TCTGGAAACG CAGGTCTGTT TTAAAGTCCT GCGCAATCTC
113521 GCGCACCAGG CGCTGGAAAG GTAGTTTACG AATAAGCAGT TCAGTGGACT TCTGATAACG
113581 GCGGATCTCG CGCAGAGCCA CGGTGCCCGG CCGGTAGCGG TGGGGCTTTT TCACGCCGCC
113641 GGTGGCCGGA GCGCTTTTGC GGGCTGCCTT AGTGGCCAAC TGTTTGCCTG GCGCCTTGCC
113701 ACCAGTAGAC TTCCGAGCAG TTTGCTTAGT GCGAGCCATG ACGGAAAAAC AGCACAGCGG
113761 AACACCCAAC ACTAGCGCAA ATACGCCCAT GAGCTGCTCT ATTTATAGTG TGTAAGTGC
113821 AGTGATTGGA TGATAGAAGA CGCTAAATAT GACGTTACAC ACTCTGATTG GTCTATCTTT
113881 AAGCCAGCAA CAATCGTGCA GTTTCACCGG CTACTATATT CTATCCAAC TCTACAGATG
113941 ATTATTTAAG TGGTATTTTA TTACTACTAT TATTTTATTT TACTTTTGCT TTGTTCCCA
114001 AGCTGGTCTT AAACCTGGGC TCAAAGGATC TTCCCGCCTC AGCATCCAGA GTAGCTGGGA
114061 TTACAGGGGA GCCCACTGC GCCGCTTGG ACTTTAATTT TTTAACTTG TCCTCTCTA
114121 CATCTGTTTT TCATAACCTG AAGGCTGTGT TTATTTTCCA TAAACAAGG CATTTGATTCC
114181 AAAGGTATTA TAATCCCCA ATTCCGTATA ACCTTCAGCT CTTTAGGAAA AAAAAAAGAA
114241 AAAAAAAGAA GAGGGAATAC TGCTCACCTC CTCTCCGGA ATGTACCCTT TACGGGAATT
114301 TCTGAAACCT TTCACAAGAA TTGATTCCCT TGTAATGCT TTAATTGACT TAGGAGTGTT
114361 ATTGAAATCT ACAAAGCATC TCAAACATAG TAGGATTACA CTATTACTCA GAAACATTTT
114421 CTATGAGACG TCTTTCTCTT GATTATGCTC TTTGAATCCT AAACCTGTCAG CGTCTGTCAG
114481 CTTTGTGTTT CTAAAGCCTA GGTGACTCTT GCCAGTCACA AAATGGCGTT TCTCCAGCAC
114541 TGCCGCCAGG TACCACCAGC TGGGACTTGT TCCTCTTGCG GAGCAGGAGG TGGACTTGGC
114601 CCAAGAGAAA CTGGATAGTG GTTCGCAAGG AACATAATT AGCATTGCCA AGAGCTAATG
114661 CAATCATTTT GAAAATCTCA AAACACTGAA AAGTGGATTG TGACCTTTTT AAATTCACAA
114721 GAGACAGGCC ACATTCTATC TTTTGATTGG TTTAGGCTAT TTTCTTGAAC AGCCATTTAG
114781 AAAGCAGATC TATCATCCTT CATTTGCATG GAGCGTTCCC ATTTTATTTG AAACCAGTTT
114841 AACCCTAATG AAAAAAGGGA GGCAGAACCC ATTATTTAAA GTGGAACTC CTGAATCAGA
114901 TAATTAGGAG TATTTCTTTT TCAAAAGTTG CGTTTTTTCA GATACCTCGC TTATTACACT
114961 AAGAAAGGTT TATATCTTTC ACAAAGGGTT TACTTACAAA AATCTTCCAA TTTTGTATAC
115021 CTGTGTTTCA TAACTGACTA GCCGTCAAAC CAAGATGTAG AGTTTCCAAC CGTTATTTTC
115081 CAAATTTTTA GAAATTACGT GAAATATTGG AATGCATGCC TTCTCAATAA AATGGGACGT
115141 AGGAAGCACT GGTGCAGAAG ATGGGTACAA TACTTATCTG GGACCACTCC ATTATTGGT
115201 TGGCACGTTG TTTGAACAAA AAGGGGAAAA GCTCAGGTTA CTTAGCATGG TTCGGATTGA
115261 TTTGAAAACT ACCACAGCAG GAGCGGAAAT AAGACCGCAT TACCTCACTC TCTGCTGTGC
115321 TGTGCTAGGG GGTATCCAG AATAGGATTG TAGAAGTGA TGTCGATTGA ATAGTTTTTT
115381 ATTCTCCCAT TAGCTGAGTC TCTGATTGGC AATGTGAGAT CGTTTTAGCT TATTGATACT
115441 TTGAAATGCA CTTAACAGCC ACAAACAAGT TAAAGGGTTG TTACCATAAA ATCTTATCCC
115501 CAGGGTGTGC TTGCATTAT CACCCGTGTT TGCTTTCACA CTAAGTGGAC TTAACCTCCC
115561 AGCAGAAATG CTGTCAGGGA ACCGGTTTCG TGGACCCAGC ATTTAACGCC TTTTCGAGGC
115621 TTGTGAGGCC CATAAATATT TGTGAATAA AAGAATGAGT TGACCATGTC ATGGTGCCTG
115681 GATTGCGTGT GCTGACATGG AACACAGGTT GTAAACCTTA ATACCAATTT GGGGCATGTT
115741 GTATGGATGA AAAGGGCATT GGAAATTCCT GAAGTGCATC CCACATTGGA CTGTGGAAAT
115801 AAGTTGCAAG TGCAGAAACG TTTCCACACT TGCAGTTTGA GTATTAATTG CAGCGTTTGT
115861 GAATTCTGGT GTTGTCTACG ATTCAATCTT GTTTGACGTG AAAGGTATTC GCGAGACACA
115921 TCGCTCTAAA ACATTGCCAG AAAATGTAAT AGAGTTGATG ACAACTGGCC CTAACACGGC
115981 CTAAAACTCG CACTTTTCTC TCCCTCCGCA ACTATTCAAA ACACTGTATT TTACATTCT
116041 TGCAAAATTAA AAATAACAT CTCTGGCAAC GGACCTCTAA AAATTTCTAA TAAAACTCCT
116101 CGGATGCTTG TGGCACTGCA TTTGTAAACC GCCCCTCTC AACCTACTCC CTAAAAAAGA
116161 GCTGCTTTTT GAGAGAGAAG CGGTACCTTC TGATGTTACT GGGCGCAGT CTGCCTACAA
116221 TTTCTTTCAC AATGAGGCAA CCAGAGCGGC TTTTCTGTG TGTGCTTG CGTTGAGGGG
116281 AGCAGGACCA TAGGCCCTAG AGGCCCCAG CTGCCTTCTG AGACTGGGCG AAACCTCGG
116341 CAGCGCGCAG GGGGCGCTAG GCGCGAGGG GCGGGCACTG ACGGGCACCA ATCACGGCGC
116401 AGTCCACCCC TATAAATAGG CTGCGTTGGG GCCTTTTTTT CGCATCCTGC TTCGTCAGGT
116461 TTATACCACT TTATTTGGTG TGCTGTGTTA GTCACCATGT CTGAAACAGT GCCTCCCGCC
116521 CCCGCCGCTT CTGCTGCTCC TGAGAAACCT TTAGCTGGCA AGAAGGCAAA GAAACCTGCT
116581 AAGGCTGCAG CAGCCTCCAA GAAAAACCC GCTGGCCCTT CCGTGTGAGA GCTGATCGTG

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116641 CAGGCTGCTT CCTCCTCTAA GGAGCGTGGT GGTGTGTCGT TGGCAGCTCT TAAAAAGGCG
116701 CTGGCGGCCG CAGGCTACGA CGTGGAGAAG AACAAACAGCC GCATTAAGCT GGGCATTAAAG
116761 AGCCTGGTAA GCAAGGGAAC GTTGGTGCAG ACAAGGGTA CCGGAGCCTC GGGTTCCTTC
116821 AAGCTCAACA AGAAGGCGTC CTCCGTGGAA ACCAAGCCCG GCGCCTCAA GGTGGCTACA
116881 AAACTAAGG CAACGGGTGC ATCTAAAAAG CTCAAAAAGG CCACGGGGGC TTTGGGGTCA
116941 AGCGTCAAGA CTCCGAAAAA GGCTAAAAAG CCTGCGGCAA CAAGGAAATC CTCCAAGAAAT
117001 CCAAAAAAAC CCAAACTGT AAAGCCCAAG AAAGTAGCTA AAAGCCCTGC TAAAGCTAAG
117061 GCTGTAAAAAC CCAAGGCGGC CAAGGCTAGG GTGACGAAGC CAAAGACTGC CAAACCCAG
117121 AAAGCGGCAC CCAAGAAAAA GTAAATTCAG TTAGAAGTTT CTTCTAGTAA CCAACGGCT
117181 CTTTTAAGAG CCACCTACGC ATTTCAAGAA AAGAGCTGTA GTACACAGAT GAAATCCCCC
117241 AAGCAAATGC AACACGCCCT CAATTATATT AGAATCACTT GGAGAGTCGA TAGAATTTTA
117301 ACATAGCCTC ATCTAGTAAG AATTTACTAC TCAATCTATC AAAGATAGCA AGGTGAATTC
117361 AAATGCACCG AGTTAAAAATC GAGTTTTAAA GTCACCTGGG TTTCGGTAGC CGGAAGTCCC
117421 GCGTCTCACG ACTCCAAGCT AATTAGTCAT AACCCTATTG AACCAAGTTT GAAGCCCAGT
117481 CCCAGGCTTG AGGCTTTTTA TTATACAAGG TTAAGTGGG GATATTGCGT TTTGGGGTCA
117541 ATATTGCTAA AGTAGCATT TCCGAAATTG GGTGGTCCTA AGAAATGCTT CTGGGATAGT
117601 TGGCAAAATA TATGGCTTAA CCACGCCCTC TCCACAGGAG TGGCTAGCGA GCTGTCTGTC
117661 CTTGGGAAGG ACGGTGACCC TGCTGGCGTG GCTGGCGCCC ACCTTGGCGT CCTCTGAAAG
117721 CCCC GCCAGG TAGGCCTAGC TCGCTTGCTT TCTGCAGCGC CATCATGACA AAGCTTTGAA
117781 ACGCAAAATG CTTTCTTTGT GCAGCGCCTT ACCATGGGTG CACTTACGGG CTGTGCACTT
117841 GGTTTAGGCC CTTGTCAAGG CAAAGGAGCT TAGTTTGTG GAGTTTGTAG GCTGCAACCC
117901 AAAATCCCTT GCTCGGTTTC TCTGTTTTTA GAAACGGAAG CGCCCTGATT GGATATTTGA
117961 AAATTACTGT GCTTAACTGG ATCGTGTTC ATCAGTCGTG CAGGATTTTC AACCTGGTG
118021 GAGCCACAC ATTCAAACT GAAGATCCTT TTCTCAGAAC TGCCCCTTTA AGCTTTTGCA
118081 ATTTTAATTC TGGGGGTCAG ATTTTAATAA TTGGACTTTT TTGTTTACAT CTGACAAGAG
118141 TATATGATGA GCCAAGTTTA CTCACTTTTA CTTAGTGCAG TTCAATTCTA AAAGTTTATT
118201 TTTGCGTGTG TGCATATGAG TTAATAATCA GTTGATTTTT TCAAACGGTC TTTTTCAT
118261 TGTTTTGCTT AGCTCCTTCC ATCGTCTAAA GTCAGGGATA CAGGCACATC ACATCCCTGT
118321 TCCCCCTTCC TCAAATAAT ATGTAGCTAC CTAGGTTTAT CCTTTAAAC AAAAATTCTC
118381 ACCTATTTTT GTGAGAAATA TACATGTTTT TCTTTGAACT AAGTATTTTA CATACACCTA
118441 TCTATATACA TGCATACTTG TGGTTTTGTT TTTTTAAAAA AAAAACCGTT
118501 ATCTTTTGAG ACTGGGTCTC AGTCTGTGTC CCAGACTGGA CTGCAGTGGC ATAATCAGCAG
118561 CACACTGTAA CCTCCAATC CTGGGCTCAG GCTATCCTGC AGCCTCAGCA TCCGGAGTAG
118621 CTGGGATTGC ATGCACGCAC CACCAAGCCG GGCTTTTTGT TTTTATTTTT TGTGGAGACA
118681 GTCACACCAT GTTGTCCAAG CTGGTCTAGA AATGGCCTCA AGTGATCATC GACCTCCCAA
118741 AGTGTTGGGA TTACGGTCAC TGTGCCTGGC CTTGTATGCA TAATTGTTTT GTCTTTTGAT
118801 TAGGGTTATT AATTTAAAAA ACAAGCCTG GACGCAGTGG CTCACATCTG TAATCCCAGC
118861 ACTTTAGGAA GCCAGATGGG CAGATTACTT GAGCTCAGGA GTTCAAGACC AGCCTGGGCA
118921 ACATGGTGAA ATCCCATCTT GACAAAAAAT ACAAAAAATT AGCAAGGCC AGTGGCACGC
118981 ACTTATAGTC CCAGCTACTT GGGAGGCTGG GGTGGGAAGA TGACTGGAAC CTGGGAGGTA
119041 GAGGCTGCAG TGAGCAGAGA TCGTGCCACT GCACTCAAGC CTAGGTGACA GAATGAGACC
119101 CAGTCTCAA ACAAAAATAA TAAAAATTTT TTACAACGAT GTTATATACA CTTCTGCATG
119161 TTGCTTTTCT CTTAACCAAA CTTTTCTAAA ACCCTGTCTG GAAAAAGAA ATCCTTCACA
119221 TGGAAATAGCA TAAGTTATTC ATCCATTTCT TATTGATAAG CATTGATGTT TCCAGTTACC
119281 ACTGCTGAAC ATGGTGCAAT TGAATAGAAT TCCAGGGCTG AGATTGCTAG GTTTTAGGTT
119341 GTATTTTATT ATTTTATTTA TTTATTTATT TATTAGACA GAGTCTTACT CTGTCACCCA
119401 TGGTGGAGTA CAGTGCCATG ACCTCAGTTG CAACCTTTGC CTCCTGAGTT CAAGCGATTC
119461 TCATGCCTCT GGTCTCCCGA GTAGCTGGGA TTACAGGCAC CTGCCACCAG GCCTGCTTAA
119521 TTTTGTATT TTTAGGAGAG ATGGGGTTTC ACCATGTTGG CCAGACTGGT CTCAAATCC
119581 TGGCCTCAAG TGATCTGGCC ACCTCGGCCT CCCGAAGTGC TGGGATTACA GGTGTGAGCC
119641 ATGGCGCCAG ACCTGGACTT TGTCTTCTGT TTCATCAGTC CTTCTGTTGG TTCAAGCACA
119701 GTATCACACT GAAGACTGAT GATTCTATAT AAATATGGTA AAGACTGTAC ACCCTAACTG
119761 TTCTTATTTT TTAATTTTAA GGCAATTTTA GATTCCAGCT TTCAAAGAA TTGTGGAATG
119821 CTTAGAGCTA GAGAAGCCTT GGAAGTCATT TAGTTTTTGT TTTGTCAGAG AAAATTCTGT

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119881 AGAGACTCTG TCCTGCTCTC ACTGAATACC ATCCCATAGT ACCCCCCAAC AGCTTTAAAG
119941 GGCAATAATA CCTTATGGAC AGTATGCTTT TCCTCAAATA TATTCTAAGC CATGGTCAAT
120001 GCAAAAGAGT GAGAAGGAAA GTAGAATAAG TTATCTAAGA ATCAGTGGGT GCTCTCTTTA
120061 AACTGATTTA TCACTCCCCC TTCCAACTC TCTTGAAGGT CACTCTGCCT CCCTTTCTAC
120121 ATAAGAACTC CTAACCTCAA GGGAGGAAGG TAAGTTATTC TTATTCCTTG CTTAGAAAAA
120181 GAGAAAATAG GTTTGGTAAG CATCCGCTTT CTGCTACCAT TCTCTGTGTT TCTGTGTTTT
120241 TTATAGGATC ATTCAATTAT TGGTTGGCTC TTGAGAGGGA ATGCAAGGTT CAAGGACACA
120301 AGCCTAGATC TTGCCTGTAT AGAACCTCAT GATGTTATGC TTCTCTAAAA TGAGGCCTGG
120361 AGGAGACATG TTGAAAGTGA CCCATAAATC TGCAGTATCT CATGTCTCTC AATGGGGACA
120421 AGGAGTACCA TGGGAAATAG CATTAGGTCA ATGACAGTAA CAACTCCCAG GTGAGTTGAT
120481 TTATTCCTTT ATTTATAAAG TTGTTAATAT GCTACATAGT CCCTAATTTT GCCACAAATA
120541 GTCATTATTT TAATTTTATA TTTCACTATT GATAAATGAA GGAAAAATG AGTAGCAGTT
120601 AAGCAGTCCA TAAACCTACA TATAAAGCAA ATTGGAGATT TTAAATTTGA TTCTGGATGC
120661 TTAAATCCTT TCTCAATTGA AAAAAATTC GTATTAGAAG ATTTCAACAT TCTTTAACT
120721 GAGAAGCATA ACATATAAAC AGAAAACCAC AGCAAAACAA AAATGCAAG AGTCAATAAT
120781 GAACACAAAG TGAACACCAT AATAATTGCC ACACAAGTAA AAAAACAGAA AATCAGCCAA
120841 CCCTCCCAGA GCCGCCTGAT GCTTGCTTCC AGTCACATTA TCACTCCATC TGCCCTAAAC
120901 ATAACCCCTA TTTTGATTTC CAATGCTGTA ATTTAGTATG CCTGTTTTTG AAACATATAA
120961 AATGGAAATA AAACAAATGT AATCCTATGT ACCTGACATA TTTCACTCCA GAACATTAGG
121021 TTTGAATAGA TTCATCTGTG TTGCTGTGTA TAACTTAAT TCATTTTAT TGTTATGTAA
121081 TATTCATGT TATGAGTGCA ACAATTTAGG TGTCTACTGT TGATGCATAT TTGCTTCCCT
121141 TTTTCAGCTA ATATAAACAA TACCGTGAAT ATTCCTGTGT ATGTGTCTTG GTATATATAG
121201 GAATACATAT TTTGTTTGT TACCTAGGAG AGGAATTGTT GGGTCAAATG CTAAACTCTT
121261 TTTGAAAGTG GTGATATTAG GTTTACATGC GATGAAATGA AAATTAACAA CACAGTTATA
121321 AACAGCATGG ATGAACCTCA CAAACCTAAT GTTGATGGAA TCTAGCTGGG AATTCCTGTT
121381 CTTCCATATA CTTCCCAATA TTTTTTCCA ATTAATAATG TTAATCTTTT GAAGATGTTA
121441 TCCATTGTGG CAGATGTGCA GTATTATCTC ATTATGGTTT TATTTTACAT CTTTTGCCCA
121501 TTTTTTCTTA ATTGGATTGT ATATCAGTCG ACTTGGGCTG CCATAACAAA AATACTAGAC
121561 TAGGTAGCTT GAACAAAAGG AGTTTATTAC CTCACAGTTC TAAAGGCCAG GCCAGAAATC
121621 CTAAATTGAG GTGCCAAGAG ATTCAGTTTC TAGTGAGGGC TCTCTATTG ACCTGAAGAT
121681 AGTTGCTGTC TTAGATTGTT TGGTGCTGAA CAGAATACCA GAGACCAAT AATTTATAAA
121741 GAATACAGAT TTATTTCTTA CAATTTCTGGT GGCTATAAAG CCTATGGTCG AGGGGCCAC
121801 CTCTGGCAAG GGCCTTCTTA CTGTTATGGC AGATGTGAGA TGTCACTCA TATTCAAACC
121861 ACAGCAGTCG CCTTTTGTGT CCTCATGTGG CCTCTTCATA TGCCCATAAA ATGACCTCAT
121921 GTCTCTTCCT TTTCTTATAA GGACACCAGA TCTATCAGAC TACTGGCCTA CTCTTATGAC
121981 CTCAATTAAC CTTAAATATC TCCATAAAGT CCCAAAATCC CTATCTCCAA ATATAGGCAC
122041 ATTGGGTGTT AGAGTTTCAA CATCAATTTT GGGGGAACAC AATTTAGGCC AAAAGATTG
122101 TGTTTTTTCT TGTTGGTTTA AGATAGCTGT CTTTTGTCC TTTTGTCTT TCTTTTTTTT
122161 TTGAGGTGGA CTCTTGCTGT GTCACCCGGG TTGGAGTGCA GTGGCGCTGT CTCAGCTCAC
122221 TGCAACCTCC ACCTCCTGGG TTCAAGAAAT TCTCCTCCTC CCAAGTAGCT GGGACTACAG
122281 GTGCATACCA CCGCGCCCTG CTAATTTTGG TATTTTGGAT AGAGACGGGG TTTCACCATG
122341 TTGGCCAGGC TGGTCTCAAA CTCCTGACCT CAGGTGATCC ACCTGCCTCG GCCTCCCAAA
122401 ATGCTGAGAT TACAGGTGTG AGCCACCAAA CCTGGCCTGT CTTTTCTGTT TTAAGTTTTT
122461 AAATTTTGCT CACGAACCTT TTATCCATTT TATGTGTTGC AGGTATTTCC TCTGTAACTT
122521 GTCTTCACTC TGTCAGAGGC TGGAGTGCAG TGGCACAATC ACAGCTCACT GCAGCCTCCA
122581 CCTCCCAGGA TCAAGCGATC CTCCCATCTT ATCCTCCTTA GTAGGTGGGA CTACATGTGC
122641 AGGCCACCAT GCCCAGCTAA TCTTTGTATT TTTTGTAGA GATGGTGCTG TTGCCCCAAGT
122701 TGGTCTCAAA CTCCTGAGCT CAAGCAATCC ATCAACCTTG GCCTCCCAAA GTGTTGGGAC
122761 TAGAGGTGTG AGCCACCACT GCACCCAGCC AATGATATCT CATGATGCT TAAAGTCAAT
122821 AATTTAGTGT ACTCAAATTA AGCACACTGC CTTTTATGCT ACAACCTTTT ACCTTCTTTA
122881 TTTAAAAAAT CATTTTCTAT TTCAAGGTCA TGAAGATCTT ATTTTATAAT TCTTCTTGT
122941 GAAATTAGTT CTCAAGACTA CCCTCACTTC TAACACCAAT TATAAGTTGG GAGGTCTGTG
123001 GTTCCCAATC AACCTTAGGT TAGTAATTTG CTAAGAGGAC TCACAGAACT TGCTGAAGCT
123061 GTTAGCCTCA TGGTTACAAT TTATTATAGG ATATATAGCT TATTATGTCA TTCCAATGCA

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123121	ATGTAAAATT	ATACAACTAC	TTTTAAAAAG	ATTTTAGCAT	TTGACCCAAC	AATTTCACTC
123181	TGAGGTATAC	AAACAGCAGA	TATGTGTGCA	CATATATACC	AAGACACATA	CACAGCAAAA
123241	TTCATTGTTT	GTAATAGTTG	AAAAGGGGAA	ACAACTCAAG	GAATAAAGAT	TAAAATCAGC
123301	TGAGAAAAGA	AACACACAAG	GCAGTATTAT	GGATCGAATT	GTATGCAGAT	CTCCCTTGCC
123361	CCCAGAAGAT	ATGTTTAAAG	TCCCAACTCC	CAGTACCTCA	GAATTGTGGC	CTTATTTGGA
123421	AATAGGATAG	TTGCAGATAT	AATTAGTTAA	GATGAGGTTA	TAGTACAGTA	TGATGGGCTG
123481	GTGACTTAGA	AGAAGTAGTA	TATATATATT	TTTTAATAGA	ACTAGTATTC	TTCTAAGGTG
123541	GTCACGTGAA	GACAGACACA	CACAGGCAGA	GACTGAGGTT	ATGCAGCTGC	AGGTCAAGGA
123601	ATGTCAAAGG	TTGCCAGCAA	GTACGAGAAG	CTAGGAAGAG	TCAAGGAAGG	ATTTTCCTAC
123661	AGGCTTCAGT	GGAAGCATAG	ATCTAATGAT	ACCTTCATGT	CAGATTTCTA	GCTTCCAGAA
123721	CTACAAGAGA	ATATATTTGT	TGTTTAAAGC	CACCTTAGCT	TCTAGCTCTT	TGTTACAGCA
123781	GCCCTAGGAA	ACTAATATAG	GCACAATCCA	GGCAAGTTCC	AAATATGAGC	TTCCAGTTGT
123841	CCTCTCCAG	TAATATGAAC	AGTATTACTT	TCCCAGCATT	AATGTGTGAC	AATACACATG
123901	ACGTACAGAG	CAGTCCCCAC	TTATGCACAA	AACATATGTT	CCAGGACCTC	CAGTGGATGT
123961	CTGAAACCAT	GGATAGTACT	GAACCTATA	TAGCTGTTTT	TTCTTATACA	GACACAGCTA
124021	TGATAAGGCT	TAATTTATAA	ATTAGGCACA	GTAAGAGATT	AATAACAATA	AATTAGAATA
124081	ATTGTTAAGA	ATATACTGTA	TAAAAGTTAG	GTGAATGTTT	ATTTCTGAAA	TTTACC GTTT
124141	ATTATTTTTG	GACTGCAGTA	GACCACAGGA	ACTAAAACCA	TGTAGAAAACC	GTATACAAGA
124201	GAACTGTATT	TCACCCGAGC	CTCAGTGTGC	AGTTTAAATG	GCCTGCCATG	GTTGACTGCT
124261	CACATGGCCG	ATCTTTTAGT	CTACCTCCAC	AGGTAGAGCT	GATACTGTGT	GGCTCAAAGT
124321	TCCTATTATA	AATCACAATTG	TTGACTGTGT	GGTGGTCAAA	ACCTCCAGGT	AAACAAAGAC
124381	ACACTTATCA	GTGAGAACAT	TTCAAGGGTC	TAAAATTTCAT	CTCCCAGTAG	CTGAGGGCAA
124441	AGGCTAGACC	TCTTTTGGG	TAAAGATAAT	TTTTTACCAT	ATACTTTATT	TTGCTTTTCA
124501	TGTTTAACTT	TATTTTGCTT	TTCAATGTTAG	TTCCCCTGGA	ATTGTTTTTT	GTGTATAGTG
124561	TGAAGTAGGG	GGTCAAGTTT	CTTTTTTTTT	CTTTTGTGTT	CTTTTCTGT	TTAAAAGGCT
124621	ATACAATTGT	CCCATGCCAT	TTATTTACAA	GAGTCCTTTC	ACCATTGTTG	TATGGTGCCA
124681	CTTTAGATGT	AAATCAATGT	CCATATTTGT	TTGAGCCTGT	TCCATTGCTT	TGTCTATTTT
124741	TGGACAACAC	TGCCCTGATT	ATTGTCATTT	TATCAGTTTT	GATATTTAAT	AAAGCAACAG
124801	ATTGTGTTAT	TTTGGGCCCT	TGGATTTGTG	TATTAATTTT	GAACCCTGTT	TGTCAATTTT
124861	TATAATAAAG	CTTATTGGGA	ATCTGATTAG	GATTACAATG	GTTTTGTAGA	TCAGTTTGGG
124921	GACAATTAAT	ACCTTTAAAA	TATTGACCGC	TTCAACTGTA	AATATACTCC	TCCATTATTT
124981	AGTTTTCTTG	TTAATTTTAT	CTGAGTAATA	CATTATAGTT	TTCTTCGTAG	AAGTCAGATA
125041	CGTAGAAAAT	TCAAAGCCCA	AGTGCAATAG	CTCATGTCTG	TAATACCAGC	ACTTTGGGAG
125101	GCCGATGTGG	GTGGATCACC	TGAGGTCAGG	AGTTTGAGAC	CAGACTGGCC	AACATGGTGA
125161	AACCTCATCT	CTAGTAAAAA	TACAAAAATT	AGCTGGGTGT	GGTGGCGGGC	ACCTGTAATC
125221	CCAGCTAATC	AGGAGACTGA	GGCAGGAGAA	TCGCTTGAAC	CCAGGAGGCA	GAGGTTGCAG
125281	TGAGCCAAGT	TCTGTCACT	GCACCCACAC	CTGGGCGACA	GAGCGAGACT	TCGTCTCAAA
125341	AAAACAAAAA	AAAGAACATT	CAAATAATCA	ATGTAGATAA	TTCAAATAAC	TAAAAAATGA
125401	ACAGTTATTA	AAATATCAGG	ATATAAAAGC	AAAAAAATCA	ATAACCTCCA	TATATACAAA
125461	ATGGCCAGTT	AGAGAAAAAA	AAAAGAATAG	GCGAGACTTA	AAAAGGCTGG	GAATCTCCCT
125521	GAAAAATCTT	GAGAGCCTTG	GCCCTGCCCT	CAGGGATTTC	TCTGGCTTCA	TGCCCAGATA
125581	CGGGTACAGT	TCCTTGTTTT	AAAAAATTTT	GCTCCATCAA	TCAACAAGGG	GCTCCTTCCT
125641	CAGAGCACAA	GGACCTCCAT	AACACCGGAC	ACTAGATGTC	TAAGGGACAC	CTCTTAAGGA
125701	AGTTAGACTT	CCAAAGAATG	GTGTTTCCTC	TGTCCCCAAA	CTCTGGAAC	CACAGCACAA
125761	CTGCTCCTTG	GAGTTCGGTT	TCAAATCTAC	AAGGCTGTCA	TGGAGGTTGC	AGACCAAGTC
125821	CGTGGCCTCA	GTGTCCGGAT	GTACGGTGCG	CTTGGCACCT	GAATGTGAGA	ACATGACCTC
125881	CCTGAAACCA	CCACAAGTAT	TGTTTCATGT	TATGTATGTT	TTTTCTTATC	TGAAATTCCT
125941	TTTCTTTAAA	AATTCAAATT	ACATATTTTG	CAAGCCCCCTG	AACAAGCTTC	ATGAGCATTT
126001	ATTGAACCCA	CAGCTTTTAA	AACCTACTGA	ACACTTGGCT	CTATGTTGTC	ATTCACTATC
126061	CACCAATTAT	TTAATTATTG	ATCAATAFTG	TTTCCTTAGT	GTGGGATCA	TTTATGCATG
126121	TATTTCTTTT	ATATTGCATA	TTTTATATTT	CTGCATTACA	GTTATTACAT	ATTACTTTTG
126181	CTACAGTAAT	AGTTCAAAAG	TGTACATCCA	AAATTTAGCT	GTGAAGTGGA	TGGACTGAGG
126241	CAGAACTGGA	GGCAAGAAAA	TGTCACAGTA	ATTCTAAAAA	AGATGATGTA	CAATTAGAGC
126301	AAGAGAGTAG	CACTGAAATT	GAAGAAAAAT	AGATGCGTTT	GAGAGAAAAA	TAGGAGGTAG

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126361 AATCAACAGA TTAGATGTAG GGATGAGAAG GGTCAAAGAT GACACTAGGG TTTTAACTG
126421 GAGCAAGTAG GTAGACAGAA CATTCTCTCC TGAAAGGGCA GGTCAGATCA TGTGTTGTCT
126481 CAAAGGGCAT GAAGAGTAGA AAGCCTGGGA CAGATCCTGA GATGACCAAT ACCCATGGTG
126541 CAGGGAGAGG GAGGGAGATC TGCTAAAAAG ACTGCAAATG TCAGGATAGT AGAAAATCAT
126601 GAGTGTGTGA TGTCTGGAA GTTGAGACAG TATCACATT GAGAACATTT AAATTGGTAA
126661 CTCTGACAAA AAGCTGGAGG CCAACTGTGA ATGCCCATGA GAGTGAGAAG CTCCCACACT
126721 TTTGTGGGCA TCAGAAAGCC CACCAGGTTT CTGCAGTGAA GATCTGAGAA GGATCCTCTT
126781 GTGGCTTTGG CAGGGAGAGA AGAATTATTA TGAAATACAC CCCAGAACCT TCTTCAAAAC
126841 AAAGGCCTAC TCTCAAGGGG AAAACATTTT GCCAGAGTCT TATCCCAGCT GGGAGAAGGT
126901 AATTCTTCCC ACTGCAGCCT CATCTAGGCT TTCTGTCTCA CTTAAGGGAA GAAAATTAGT
126961 CAACAGGGAT CAGAGCTTCA TGAAAATAAA TTGGAAATGG TGCAGCCAGG AAAGGAGCAA
127021 AGGTCTGAGG AGGAGGAGAA GGAGGAAGAG GAGTTGTATC ATTATAAATA CTTGAGGAAG
127081 AGGAGGAGAA GGAGGAGGAG GAGGAGTTGT ATCATTATAA ACACCTTGAGG AAGAGGAGGA
127141 GGAGAAGGAG GAGGAGGAGT TGTATCATTAA TAAACACTTG AGGAAGAGGA GGAGGAGGAAG
127201 GAGGAGGAGG AGGAGTTGTA TCATTATAAA CACTTGTGAC GGTCCCAGCC CCAAGATATA
127261 GGCATGCTAA TAACTGAGG CTTAACACTT TGACTACAGA ATGCTGCTTC TCCCTAACAC
127321 CATCAAGGCT CCAACTGAAT AACAATGAAT TATGAATGAA AGAGCTGTAA GGAGAGACAA
127381 AAGTTAGAAT GAGACAAGTA TTGTATCTA GAGATGCCAA GAAGGCAAGG AAGATAACTA
127441 AAAAGGCACT CTGGATTTAG AAATAGGAAG TCATTAGTGA CCTTGTAAT AATGGAGCCA
127501 GAGGAATACC AAGGGCAGAA GCCTCACTAT AGTGTGTTGC ACCTGTCAGA GGTCAGGAGG
127561 TGTAACTGAC TCTCCACAG TGTGGCTTTG GAAGAGAGAA GTCAGCAGCT GCATGGAGAT
127621 TTGGGAGAGG GAAAGCTTTT TTTTTTTTT TTTAATTGGA AAAGACTGAG CTATGTGTAA
127681 ATAGAATAAG ACAGGAAGAG GTGACACACA GGAAAGAGGG CAGACAAAAA CAAGTGCACA
127741 GTTATCTAAG GGAAACAATG GGATCAAGCT GCAAGTATAT AAACCTGTCT TGATAGAAGA
127801 ATCCTTGATC TGGTTTATTC AGTGTGTTGG CCAAACCCAC ATCCCTGTTT GCCTGTCTC
127861 TGAATTGCTC TGTGCCCCAG AAGCCCAGCT TCTACAGATA GCATTAGCTG GGCAGCCCTG
127921 CCCTCTTGCA ACAGCTGGAT TTGGCCAGTG ATCAGCCCAG CAGGAATGTA GATGGCAAAG
127981 GAGAGAGAGG TTAGTGTACT TATTCCTGTC ATCAGCCCCC TGCTTGGTGG GCAGCTCTTC
128041 CTCCACAGTC CCAGCTCTGG CCTAGCTCTG GTTACAGGTT CCCTCCCAT GCCTCTTCAG
128101 ATTTAAAGGT GTGTCTGTCA GGGTATAACT GGGAGCTAGA AATTGCACTG AAATTGAACA
128161 AAGAATTTTA TGGGAATGGT TGTAACTAG TTATAAGAGG ACTGAAAATG GAAAAGTGGA
128221 CAAACGTATC AGAGATAGTA ATGACAGAAA GCAACTACCA CCTCCAGGTT TAGGAGAACA
128281 AGGAAAAGAT TCTTTGAAGA GATCCCCAGA ACTGGGACCT CTGAGGAGTG TATGCTGGAC
128341 CACTGATGAT GATATGTCTG TAGATAGAGG CATGATGAGG CTGATTTTAG GAGCATGGAA
128401 GATCTCCAAA CTGAAGCCAA CTGCTGTTAC TGGATTCAAC TGCCACTGCC AGGTTGAAGA
128461 ACCCATTCTG TGAGGATGTC AACAACAAA GTGGGAAATC TTTTCACATC CTTCCAGCCC
128521 TCTAGTCTTC CTCCAGTGCT TTCTATTGGT AGGGTTTGGG GAGGTGGCTA GCAAAGCGGT
128581 ATTGGAAAAG ATAGAAGAGA CTAAATCTTC ATAACCAGCA CAGGGTGACA CTGGATCACT
128641 ACTGTTGCTG ATCTTGGGCT GCCTCATATC CCCTGTTCTT CCCATTAGCC CTGTCAAC
128701 TTTGTAGATA TCCCTTCATT ATATGCCCTT CATATATTCT TTTGGTTTAA CTTTTTCTGT
128761 TGGAAATCCTA ATATGGCACT CCTCCATTTT TCAGGACCAA AAGAGTATAA AAGATTATCT
128821 TTTACCAAAA AAAAGACAAA AAAGTATCT AATTCTGAT TTGATCATT CACAATCTAT
128881 ACATGTATCA AAATATACA TAGTACCCCA TAAATATATA CAACTGTGTC CATTAAAAAT
128941 AAAAAATAAA GAAAAGATGG TAAATATAGC TCTGTCAGGC AGTGGAGGTT TTACCACGAT
129001 GGCTGTTATT TCCCCATGA AGGGGGGAGT GAGGGAGCAG CTGAAAGTAG GTGCTTATAG
129061 GGGTATAGAG GGGCTCAAAG CTTTGAGAGA GGAGAATGTC TGAAAGAGCT GCCAAATAGC
129121 ATGCAGGTCC CATGGGGGCA GAGCCTCTGC TCATTACCA GTGCCCTTTC AATATCTACA
129181 CTTAAGCCTA ACACAAAGTG TGTGCTTAAT AAGTATTGTC TGAGTATGTA AAGTGGAAAC
129241 AGAACCAATC TGGCAAACCT TGTAGGACTG GTGGGCAATG AAGATCAGTC AGGTAAAATC
129301 TGTGGATATA AATTTATATT GATCAAAAAA TTCAAGGTTA GGTGTTTTTC TTCAGTCATG
129361 CTCAACGATG CTTTCAGCCAT GCTCAACTCT TCTGTAGCCA CAGAAAAAAG TTTACCCATA
129421 ATCGAGCTGT GTCTGTGTCT GAATAATGAA AAGACCATGA TGCAAGGGAG TTGGAGACAC
129481 AGAAACAGTG TTTGAAGTAA TGGGTAATGG AAGCATGCTA CCAGGGAAAG GAAAGAAGTG
129541 GCAATAGGAA GGAACAGAGA TCTGTGGTCC TATGTCCCCT GAGCATATTC ACATGTTAAA

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129601 GCTAATTCAG TTTTCAATCA TCATTAAAAT TTTGTTCTTA AATATATGGC CATTATTTTC
129661 CACAACCACA CTAAAACCTTT ATTACCTCTG GCAAGTGACT ATGCAAGTAA CTAAGAGCAA
129721 AAATATCCAC AACTACCATT TGAGCTATCA ATTTAGGGAA AGTCATCTGG CTATAATCTA
129781 AGTGACCCTC CACTGAATGT CAGTATCTTT GCATATGTGA TTTAAATCTG GGCCTTCGCA
129841 ACACCATGAA CTGTTCTTGT CTTGAATATC CAGATTGAAG GAAATAATCT GAGTAGTTAC
129901 GAGTCCTGAA GCTAGAAAGA TGGAAACCCC ATTTGCTCAT CAGAAAGCCT TAGAGCTTGG
129961 GCGCTGGCGG GTCCTGTCTC ACCGGGACAG AGGGGCTCTT TCCTCCCCAT CTGATAGTCT
130021 GATAACTAGA GAAGCCGGCC AACTTATTCT CCAAGAAGGA GCCATCTTAG TTCCTCCTGA
130081 AATGTTTCATA TTTAGAAATT ATTGTTTGTC AGTAATTTAA CCCCTTAATG GGCTTGCCTT
130141 GTGGTCCATA CCACTGAGTG CAGAGCTTGC CTGGAAGAAT TGTGAGGGCC ATTCCATCTT
130201 CCAGGCAGTA GAGTTCAGTA CTTCTTTAAA ATTGCTGCTG AACTCTGTAT TTGAAAAGAA
130261 AGAATCATTT GGGTGTGGTA GCTCACACCT GTAATCCTAG CGCTTTGGGA GGCTGAGGTG
130321 GGAGGATCAT TTGATGCCAG GAGGACCCT TGAGACCACC CTGGGTAACA TAGCAAGACC
130381 CTGTCTTTAG AAAAAAAAAA TACAATAAAA TAAATACAAT AAAATAAAA GCAAAAAGAA
130441 AGAGTCCATC TTAGGGACAG ACTGTAECTA CTCCTGGAG CTTACCTTTA CATAGTTTCAG
130501 GATCAATTAT AATAAAACAC TTTTGTGCAG ATTCAATAGG ATTATTTTAA TCCCCATCAT
130561 CTCTCTGAGT TTCCAGTCAG TTTCTCTGCA TGTAGACACC CTTCTCCAGC CCACCATTGT
130621 CTCTCTCCT ATAGCTCCAC CAACAAATCA GAACCTTTTC TAAGTGCACC TAGTGCACCT
130681 AGAGTCTACT CCAGAATGCT CATGGAGAAA GTTTCTGAAA GGTAAACTC TGAATGATAT
130741 TTGTAGCTAA AGGGAGACTT GCTAGAGACA ATAAGCTAAT AGTTGTAGAC TTCAGTAGAA
130801 GAGGAATGAC ACTGCAATGT CAGGGTGCAG GACTTCAAGA GGGCAGAGTA TGGAAACCCA
130861 ATGGGAAAAA TGCTCACCAG GAACATGAAG AGAAGGAATT ACGTGAAGG ATTTCTCAAT
130921 GTGTTCCCAA ATTTGCCCG CAGAGGGAGG CCTCGGGTGG ATGGCAGGCT GACCACACAA
130981 TTAAGAAGG CTGAACCTGG GGGCTTTTAA CAACCATCGT GGGCTCTACT GTAAGCATTT
131041 AGAAAAAGAA AGTTATCCAT TCAAAAATAT ATATATTTTT AACTTCAGA ACAAATTAT
131101 GAAGACTAT ATTTACTTTT CTACATTCTA ATTTTATAA ATCTGAGTAT ATTTTGCATA
131161 TATTGTTATA GTACATATC AATTTGTAT TTTGCTGTTT TCACTTAACC ATTTTACTA
131221 GATTACTCTG TGTTTCATAAT AATCACTTTT TTAATACTTT TATTTTATT TATTTATTTT
131281 TTTTTTGAGT CAGAGTCACA CTCTGTCGCC CAGGCTGGAG TGCAGTGGCG TGATCTTGGC
131341 TTAAGTCAAC TTCCACCTCC TGGATTCAAG CAGTTCTCCT GCCTTAGCCT CCTGAGCAGC
131401 TGGGATTACA GGTGTGCACC ACCAAGCCCG GCTAATTTTT GTATTTTTAG TAAAGACGGG
131461 GTTTCACCAT GTTGGTCAGG CTGGTCTCCA ACTCCTGACC TCATGATCTG CCCACCTTGG
131521 CCTCCCAAAG TGCTGGGATA ATCACTTTTT ATGCTGCATA ATTCTTCAGA TTTGTGAGTA
131581 CGACTGTATT TACACTCATT TGTTTTATTA GAAAGAATTC CAGAATATTT TGGCTGCCCT
131641 AATTAATTTT ACAATTAATA TGATTTTGAA ATTGGGTATT GGCTCCTTCT GAATTGGTTT
131701 ATTAAAAAT ATTCTAATGT AATTTATGAC ATTTTCATCA TATTAGCATA TTTATTCTGT
131761 TAGAATTTCA TAATTTATAA AGCTACAAAC TGTATGTGAT ATAGCTTGTG ACTTTATCTC
131821 ATAACCTTAT GCAGTTACAA GTAGAAATAA AATGTTCCCC TCAAGATTGC TTAAATTTT
131881 ATTATAAACA AGTGTAACAA ACAAATCAC TAAACACTC CCTCTTTTTT CCCCCAAAT
131941 GCATGTTTCC ATTTTAAACAG AACCCTGATT TAATCAGCAG ATTTCTATGG TGGCTAGATT
132001 TGTAAGCTAA ATATTAAAG TCCCAAAGCA AATGCATTTT TCTCTTAAAT TTTACTGACT
132061 TTTTTTTTTT TTCTTTTTCT GAGACGGAGT CTTGCTCTGT CGCCAGGCT GGAATGCAGT
132121 GGCACAACT CTGGCTCACTG CAACCTCCGC CTCCCGGATT CACGCCATTC TCCTGCCTCA
132181 ACCTCCCGAG TAGCTGGGAC CAGAGGCGCC CGCCACCAGC CCCAGCTAAT TTTTGTATT
132241 TTTAGTAGAG ACAGGGTTT ACCGTGTAG CCGGGATGGT CTCGATCTCC TGACCTCATG
132301 ATCTGCCAC CTCAGCCTCC CAAAGTGCTA GGATCACAGG CATGAGCCAC CGCGCCCCGC
132361 CTACTGACTT TTATCCAAAG AAAATATAAG AGCTCTTCAT CATAACGTAT GTTTCTTGCT
132421 CTGTGTTATTA AATATGACAC ATTTAGACTT AACTGATTT GAAGGTTTAT GACATTGTTT
132481 AAGTTATTAC ATAATTAATT CATAAGATA ATGACTAGTT TGAAGTACTG ACAGCTCACA
132541 CATCATCAGT TGAACAGCAG AAAGCTTACT AAGCTACTTT CTTATGTTT TGTCTCCCAG
132601 CTACTAAAAG AAACGAAACC CTTCCAGGTG TTAAGGCAAA ACTTCTCTCC CCCTTCTTC
132661 TATAAATCTG ATTCATGTT AGTGAATTT CTACTGATGG CTTTGGTTTC CTCTATAGTA
132721 GAATAGAGAT CCTATGGCAA AAGTCATGTC TGACATGGTA GCAATAGAA ATGGGGAAAA
132781 GGAAGGTCTG CAAGAGCCAA TGTGGGAAAT GGGGAGAGGA CTGACTACAA AAACCCAGCA

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132841 GGAATTCCAG AAGAAAAC TC CAGGACGG GCACATTGGC TCATGCCTGT AATCCCAGTA
132901 CTTTGGGAGG CCGAGGTGGG CAGATCACTT GAGTCCAGGA GTTTGAGACC AGCCTGGTCA
132961 ACATGGCGAA ACCTCATCTC TACAAAAAAT AAAAAAATTT GTCAGGCGTG GTGGCATGCA
133021 CCTGTAGTCC CAGCTACTCA AGAGACTTAA GTGGGAGAAT CACTCGAGCC TTGGAGGTGG
133081 AGGTTGGTGA GCCGAGATCA CGCCACTGCA TTCCAGCCTG GCGGACAAAG TGAGACGCCA
133141 TCTCAATCAA TCAGTCTCCT CGAAAAGCAA CATTATGGAG AGACAGGATT CCGTCAAGGC
133201 CTGGGGCACA CAGGAAAATA TTAAGGCAGA AGAGAGTTTC CTCCCCACAC CACACCGTAT
133261 CCCACAGGCA CTGCGGATGT GCATATGCAA GAGGGGTTGA TCCTAAGAAT TTAGAGTCAC
133321 AGAGGAGGAG GCACCAAGCA GACTGTGGAG AAAGTCATGA CCAGAAAGGG ACAGAAATGTA
133381 AAGCTTCAGC TGATTATCTG GCCTCAGGGA TTCCAGAGGA ACTGGTCCCA ATGGTCTCCT
133441 GGTGATGTAG GTTCTTAGGT TTCCTTTTACA GGGGTTTTCT GGGAGATCGT TGACCCAGTT
133501 AGCATTCAAG CAACTTCCAC CCTGCACTTT TATTCTTTCC CCTTCACCTG CTTAGGTTTTT
133561 ATCTGTCCAG GAAATAATAA TAAAATTATT GAGCCCTGGA CATGTACCTG TAAAGCTCCT
133621 TAAAGATGAT GCCTTCTAAC TCCTCATTCA ACAGATACAA AAACATTACA ATAAATGAC
133681 TCATGCAAGA CACCCAGGTA GTTTATAGCA GCTAATAAAA ACAGAATAAC TATAAAATAT
133741 GGTAAAGTTA TAAAGTTTAC ATTGAGTATA CTTTATAAGA ACTGCTTATT GAGTTTGCCT
133801 AATAACCACA CAGCACAATA ATAATATGTA TATATTTTTA AATATGTGTA AATATGTGTA
133861 ACACAAACTT GTAGAAGGTA TATCTGAGTA CAACCCTATT CTGTTTGGTT ACCTTTTCTA
133921 GTTCATTATG TAAGTGGCAT AGCTACCTAA GGACTTATGC TTATAAATGT TACTCAAAAA
133981 AATACAGAGG ACATATGTGG ATAGATAATG GAAGAGATAA GATAGGTAGG TTGAAGGGTT
134041 GGGCTGCCCC TCCACACCTG TGGTTGTTTC TCGTTAGGTG GAATGAGAGA CTTGGAAAAAG
134101 AAAGAGACAC AGAGACAAAG TATAGAGAAA GAAAAAAGG GGTCCAGGGG ACCGGTGTTC
134161 AGCATACGGA GGATCCCAAC GGCCTCTGAG TTCCCTTAGT ATTTATTGAT CATTATTGGG
134221 TGTTTCTCGG AGAGGGGGAT GTGGCAGGGT CAAAGGATAA TAGTGGAGAG AAGGTGAGCA
134281 GGTAAACACG TGAACAAAGG TCTCTGCATC ATAAACAAGG TAAAGAATTA AGTGCTGTGC
134341 TTTAGATATG CATAACATA AACATCTCAA TGACTTGAAG AGCAGTATTG CTGCCAGCAT
134401 GTCCCACCTC CAGCCCTAAG GCAGTTTTTC CCTATCTCAG TAGATGGAAT ATACAATCGG
134461 GTTTTACACT GAGACATTCC ATTGCCACG GACGAGCAGG AGACAGATGC CTTCTCTTG
134521 TCTCAACTGC AAAGAGGCGT TCCTTCTCTT TTTACTAATC CTCCTCAGCA CAGACCCCTT
134581 ACGGGTGTGCG GGCTGGGGGA CGGTCAGGTC TTTCCCTTCC CACGAGGCCA CATTTCAGAC
134641 TATCACATGG GGAGAAACCT TGGACAATAC CTGGCTTTCC TAGGCAGAGG TCCCTGTGGC
134701 CTTCTCAGT GTTTTGTGTC CCTGAGTACT TGAGATTAGG GAGTGGAGAT GACTCTTAAC
134761 GAGCATGCTG CCTTCAAGCA TTTCTTTAAC AAAGCACATC TTGCACAGCC CTTAATCCAT
134821 TTAACCCCTGA GTTGACACAG CATATGTCTC AGGGAGCACA GGGTTGGGGC TAGGGTTAGA
134881 TTAACAGCAT CTCAAGGCAG AAGAATTTTT CTTAGTACAG AACAAATGG AGTCTCCTAT
134941 GTCTACTTCT TTCTACACAG ACACAGTAAC AATGTGATCT CTCTCTCTTT TCCCCACAGG
135001 AGGTGATGGC CGGAAGAACA TGGCAGAGGG CAAAACAAAA CAGCATTGGG AACAAGCTCT
135061 GTTTAAAAGG AGACTTGTGA ACAGCAAAGA GTAGAAAAGG TTCTCTTACA ACTGAAGCCC
135121 ATGGAAGACA AATGTGTACT GCGTGAGTTT TAAGGCAATA GGAGTAGTGG GACCTAGGGC
135181 ACACCAGAGA GCATATTAAC TCTCAAACCT TTAACAAACAT TATATCTGCT GGACACAGTG
135241 GCTCACACCT TAATCCTACA ACTTTGGGAG GCCGAGGCGG GCGGGTGTAG CTTGAGCCCA
135301 GGAGTTTCGAG ACCAACCTGG GCAACATGGC AAAATCCCGT CCCTACAAAA CAAACAAACA
135361 AAAAAACAAA TTAGCCAGGC ACGGTGATGC GTACCTGTGG TCCCAGCTAC TCAGAGGCTG
135421 AGGTGGGAGG ATCGCTTGAG CCCCAGGAGG TTAAGGCTGC AGTGAGCCAT GATAATGCCA
135481 CTGCATCTCA GCCTGGGCAA CAGAGGAGA ACCTGTCTCA AAACAAAAAC AAAACACAC
135541 CATACCCAAC CACAATGCAT CTGTCTTAAG TACCAGTACC ACACCCCTCT ACTCACTACT
135601 AAATAGGTGA GTTCCCAATC CCTGGTAGCA GGTTTAAGCA TGTTATATTA AAGGTCTTAG
135661 GCTAGTGA CTCTCACTCA TTAACAAAT ACTTATTGTG CATCTACTAT AAATAAGTA
135721 CTGTGCTAGG TACAAAAGCA AATAATCTAA GCTCTATAAA CTTTACTTTC TTCATCAACA
135781 AAATGGAGAT GTTTTAGGCA TCTACTCATC ATTCTGAGCT CCATCTTTTG TGACTGTAGT
135841 TGGCAGAGCT TTTTATCAGT TTCTCTAAAT AGCTCTACCA GTCCCTGGTG GATGCTGGCA
135901 TGCCCAAAGG ATCCATCCTG ATGGCCCTGT CTGCTTACCT TACCTGCCTG CCTTTGCAGC
135961 ACCGCTCTGC TCTCTGCAG GACTTCCCTT ATCCTTTGGG GTCTTGCTGC TCTTAGGCTG
136021 CTCTGCTTGT TTTGATCTGC TTTGCATCAC ATGTATGTAA AGGTCCTTC CTTATTTACC

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136081 CATGACCAAG GTATTATGAG ATTCTGGAAT TTCCCCAAAC CACATTGATT GCTGGGAGAA
136141 TAGAAGAAAGT GGATTACAAG TGGAACCTTAG AAGGGGAGTA TTCGAGAAGA CGTCTCTGCA
136201 AATCCATTTA GAGAGACCTT TCTCCAGTGG TGACTIONAAG ATGCAGCTCC TTTTCATCCTG
136261 TGGCTTGGCC ATCTTCAGCA CATGGCTCCC AAGGATGTCC TCAGGATGGT CTCTAATCCA
136321 AGGAGCCTGA AGAGAAAAA AGGCATGGAG TATTGTGAGT GGTAGGTGGT TATGGACCAG
136381 TTATGGAGA ATACACATCA CTTTGGCCCA CCTTCTACTA ACCAGAACTC ACACAGCCAT
136441 AGACACTGAC AAGTAGGACT TAACAAGAAT CTAATTTTGA GTCTAGGAAT ACGACTGTAG
136501 CAAATATTTA ACAGCTTCAA ACACAGGTGC ATTGCTATCA CTATGCTTGG CCCAGGCCTG
136561 TCTCCCTTTC CTGCCATGTC ACAGGGGCCA GCATTATATGT CTAGATTGGG TTGGTTGGGA
136621 TATTAGACA ATAATGAACC AATACAACAT CTTGAGCATA AAACCAACTG ATACAATGAT
136681 GTACAAGTCA GATGATTCTG ATGATTATGA ATTATGTCAA TAAAAGAAAT GTGATAACTA
136741 AGGTAATTTT TGTTTTGGCA AATTTTGTGTT TGTTTCATGAC AGGATGAAAT CCTGTCTATT
136801 GTAGCAACAT GGATGGAATT GCAGGATACT ACATTAAGTG AAATAAGCCA GAAACAGAAA
136861 GTTAAACACC ACATGTTCTC ACTTATATGC AGAAGCTAGC TAACCTAAGTA AATAAGTTTA
136921 TCTCATTTGA GTAAAAAGTA CAACAGAGAT TACTAGAGGC TGGGAATGGT AGGGGAAAGA
136981 GATGATAAAG AGAGATTCTG TAAAATAAGT TACAGCTAGA TAAGAGCAAT CAGTTCCTAGT
137041 GTTCTATTTG TACTACAGAA TGGCAATAGT TAACAGTAAT AAATAATTTT AAAGAGCTAG
137101 AAAAGAGGAC ATTGAATGTT TCCAACACAA AGAAATGAGA AATGCTTGAA ATAATGGATA
137161 TTCTAATTAA TTACCCTGAT CTGATCACTA TACACAGTAT GTATAAAAAAT AACACTATGG
137221 GCTGGGCGCA GTGGCTCACA CCTGTAATCC CAGCACTTTG GGAGGCCAAG GTAAGCAGAT
137281 CACTTGAGGT CAGGAGTTAG AGACCAGTCT GGCCAACATA GTGAACTCC ATCCCTACTA
137341 AAAATACAAA AATCAGCCAG GCGTGGTGGC ATGTGCCTGT AATCCCAGCT ACTCAGGAGG
137401 CTGAGGCAAG AGAATTGCTT GAACCCAGGA GCGGAGGTT GCAGTGAGCC GAAATCGCGC
137461 CACTGCATC CAGCCTGGGT AACAGAGCAA GGCTCTGTTT CAAAAATAAA TAAATACATA
137521 AATAAATATT TTTAAAAAA AGAACAATC TATGCACCCC ATATATACAT ATAATTATTA
137581 TGTCAATTTG AAACATAATT TTGAAAAATG AAAAAATGAA ACACAAATAT GAATCAATCC
137641 TCTCCAAGTT GATATACTTA AAAGGAAAAA AGTCCGAGGG CTTAAACTAT TCAATCAAAA
137701 TTTTATTAAA ATGCTATAGT AATCTGAAA GTATTTTCAGA ATGAATTGGT ATAAGGTTAG
137761 ACACAAAGAT CAGTGAAACA AAACAGAGAA CCCAGAAATA GATTACACA TCTATGGACA
137821 ACTGGTTTTG ACAAAGGTGT CAAGGCTATT TAATAAGTAA AAAAATCGTC TTTTCAGTAA
137881 ATGTTTCTTG AACAAGTAGA CATCCGGTGT GGGGGAGAGG AGCAGGAGCC TTACCTCAAA
137941 CTTTATGCAA AAATTAATC AAAATAGACC ATAGACTTAA ATGTAAAAGC TAAAATTATA
138001 AAACCTCTTT AAAAAATAGG AGAAAATCAT CAACACCCTA GGATTAGCAA AGATTTCTTT
138061 AAAACAAAAC AACAGGTTTA TAGTTTATAA AACATAAATA ACAAATGAT AAATTTTCATC
138121 AAAAGTGAAA ATTTGCTTTT CAAAAACAT TATAAAATGA AAAGCAGGAG GCTGAGGCAT
138181 GAGAATCACT GGAACCCGGG AGCTACAGGT TGCAGTGAGC CAAGATGGTG CCACTGCATC
138241 CCAGCCTGGG TGACAAAGTG AGACTCTTCC TAAAAATAAA ATAAATAAAT AAATAAATAG
138301 AAAAGAAAAA GAAAAATCAC AGGCTGAGAG AAAATATTTA TAATACATGT ATCTGACAAA
138361 GGACTCGCAC CTGGAATAA TAAGGAACCT TATAACTTAG TAAGATGACA AGCCAAAACA
138421 AAGAGTAAAA GTTTTCAACA GACATTTTAC AAAAGAAAAA ATACAAATGG CCAGTATGCA
138481 CATGAAAAGA TTTTAAACAT CATTAGTTAC TAGGGAAATG CAAGTCAAAA CCACAATGAG
138541 ATACTTCACA TTCAACAGAA TAGCTAATGT TAAAAGGACT GACAATCCCC AGGGTGAGCA
138601 AGGGTGTGGA GGAACTACT CTCATATATT GTGAATGTAA GAGGACAATG TTACAATAC
138661 TTTGAAAAAA GTTTGGCTGT TTCTAACATA AAATTAACA CTTATACAGC CCAGCAATAT
138721 TTCTGGGTCA TTTCTCCAG ATAAATGAAC ACATGTCCAT ACTATGACAT GTACAAATGT
138781 TCATACTGGC TTTGTTCAC AATGCTATAA ACTGGAAACA ACCCAGGTGT CCATCAACAG
138841 GTGAATGGGT AAATAAATTG TAATATATCG GCCAGACGCA GTGGTTCATG CCTGTAATCC
138901 CAGAACTTTG GGAGGCCAAG ATGTACGGAT CACCTGAGAT CAGGAGTTTG AGACCAGCCC
138961 ATCCAACATG GTGAAACCCC ATCTCTACTA AAAAATTAGC TGGGCATGGT CACGGGCGCC
139021 TGTAATCCCA GCTACTCGGA AGGCTGAGG AAGAGAATCA CTTGAACCGA AGAGGCGGAG
139081 GTTGCACTGA GCCAAGACCA TGCCATTGCA CTTCAAGCTG GGCAACAAGA TGGAACTCC
139141 ATCTCAAAA AAAAAAAAT TGCAATATAT CTATATCTTG GAATATTATA AAGCAATAAA
139201 AGGGAATAAA CTACTGATAT ATACACAAA TGGATGAATC TCAAAAATGT GAAGGAAAT
139261 AAAAAATACA TATGATATA ATTCCATTCA TATGAAATTT TAGGAATGGG AAACTAAGC

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139321 TGTAATTATG GAAAGTACAT CAGTGGCTGC CTGGGGCCAA GAGGATGGAA GAGGCGGCAC
139381 AGGTGATACT ACAAATGGAA ACTATCTAGG TTGACGGAAG TGTTCTGTAA CTTGATTACA
139441 GTAGTAACTG TTTGGGTATA TAAACGCAT CAAATTGTAT AATTAATACA GGTGTATTTT
139501 ACTGTGTATA AATTATTCCT CAATAAAGTT GATTTTTTCAT TAAATATATT ATTTGCTAAA
139561 ATGAGGAGAG ACAACTATTA TCTTAAATA GTTAAGCACA ATAAAAATAC TACAATCAAC
139621 TCATTATATA TGGAAATTAA AGGAGAAAAA TAGTGGTATG ATTAATTTAA ATAAAAAGAA
139681 AACCTTCTAA ATTTTATCTT AGCTCATAGT TGTAAGAGCT GCCATCCCTA ACCAAGGCCA
139741 CCCTTGACCC TTTCTCATGT TCCATCTTTC TGTTTGTTTC ATAGTTTATG TCTCACCAAA
139801 ATCTATCAGA TAAACGTATT CATATGAAGA TTTAAATATA TTACATGTTA AGCCTTAGCG
139861 AATACTTCAA TATCTAAAGA AGGTACAAAC AAAACAAAAA TCAACACTTA GTTATAAGAG
139921 ATTACATACT CTCCAGGGAA GACCTGAAGA CTAGCCCTT TCTGGATCCC ACTAGCCCTT
139981 CATCCCACTC CAAGCCCTCC CCTCCAATCC CATATGCACT GGGCATTCTAT ACAAATAAGA
140041 CCATCAGCTC TGGATATCTG TACTGATTGA TGCTCCTGCT AACTACCTGA ATGATTGCGA
140101 TGTAAGGACA GCACTGCCTG AATCCTATTT ATCTCTCGCT ATGCCATAGC GGCCTTCCAT
140161 GCTGATGGCG TGTTTGAGGA TCCAGAGGGG TCTTTGGTTG GCAGGATTGT TTTATTTCCC
140221 CAAGAGGAGA GCCTTGATGC AAAAATAGGT GAAGAAATCA GTACAACAAA ACAGAAAGCC
140281 TAGAAACTAC TATGAACACA ATAGAGCAGA AGTAGCCTTA AGAGTTGGTG GAGAAAGGAT
140341 GGTCTATTCA ATTACCTGGG CTGAGAAACT GGCTTTCATA TGGAATAAAA ATAAATTAT
140401 AGCTATACCC CATATCATAC ACAAAGTTT CTACATCTAA CAAAGACACA GATAGAAAA
140461 GTTTTAAAT TTTAGAAGAA AATAGTGCAG AATTTTAGTG CAGAATTTCT TAGACTAGAT
140521 GCAAAAACAA AAATGATTAA AGTGGCCAGG CACGGTGGCT TATGCCTGTA ATCTCAGCAC
140581 TCTGGGAGGC CGAGGTAGGT GGATTAGTGG AGGTCATGAT TTCGAGACCA GCCTGGACAA
140641 CATAGTGAAG CCCCATCTCT ACTAAAATAC AAAAATTGGT AGGGTGTGGT GGCTCACGCT
140701 TTTAATCCCA GCTACTTGGG AGTCTGAGGC AGGAGAATCA CTTGAACCTG GGAGGCAGAG
140761 GTTGCAGTGA GGGGAGATGG CGCCACTGCA CTCCAGCCTG AGCAACACAG CGAGACTCTG
140821 TCTCAAAAAA ATCTAAAAAT AAAAAGATTA TTTTAAAG ACTATTTTAA ACAAAAAAAA
140881 TCGTTTTAAAT GATATGACAC ACTACATCTA ATATTGGAA AAGTACTTCT TAATACTTTT
140941 AATAAAAAGA GCGCTGAGA GCATACAACC TATCCTCAGA AGAGTGTTTG ACCTCTAGGA
141001 GGGACGCAAG CGCGTTCTTC CTTCATTTTA ACTGGTCATT TTCATTTATT TCAGGAACAT
141061 CTGAAGTAAA CACAGTCACA CGTTAACCTT TAAAAATCTA GGAGGTGCGT ACGCATAGTT
141121 CCATTACTTC AATTTTTGTA CTTTTCGATT TTTAAATATC ACAGGGAAGC TCGGTACAGC
141181 TTCAAGGCTA GGAGGGGTGG CTCTCTCTTA AGCCCTGTCC CCGCCAGCCC CAGACCTCTC
141241 GTCCCGCCCC CATTGCCCAG TCCCCACCCT CACTTCCCCA TTCCCCACT CCGCGGTCT
141301 CTTAACGCAC CTCGTTTTTC GTCCAGTGA CTCAGACCTG TAGTCTTCCA CCAGGATCGG
141361 CTCCTTTCCC GGAGCTCTCG CTCTTAGAGG AAATTGAGAG AAGCATCAGC GGAGACCCAT
141421 CTGTGGCTCT CCAGAGGGCG CGGCATTGAG ACCCCAGATC CAGCTGTGAG AACGGACCCC
141481 AGGCTCACAC CAGGCCTGCG GGAGGCGGCC CACCAGAGGC GCTAGAAAAA AAGCCTCGCG
141541 GGGAGGCGCG CAGGGCGACT GCAAGCTGTA GGGGCGCTG GCGCCCTCAC AGGCCAGGGG
141601 CAGGGCCGCG GCTGCGGGCG GGGCTCCTGC GCGGTGAGGG GCGGCCCCAG GCCAGCAGCT
141661 GCGCCCTGGC TGGGAGCCGG GGAGCATTTG CTGCTCTGCT GGACCCTGAG TCTGGCGGCG
141721 GCGCGCCTCC TCTCCGCTCC CCGCCCGCCA TCCCCCACT CCGATCTCT CTGCTGCGTC
141781 TGGCCTCAGG CTGAGACCCC AACGAATCAT TCCCGCATG GGAACATTTT ATGATATAAC
141841 TGAATTCAGT TTTATGTATA ACTGAATTAC AGACACAAAT CTGTAAGAAA TATAAAGTCG TGACCACGTC
141901 GTTTTTACGC ACAAACATG AGACACAAAT CTGTAAGAAA TATAAAGTCG TGACCACGTC
141961 CTTTCAGAAC TTAAACCTGT TTGCTGAAGT ACGTCAGTAA CAATGGCAGG GAAAGGGTAT
142021 CTTAAATTTT ACCACAGCCT CAAAGAGGCC ATTTCTGTGA TCCGCTGAGG CTTGGAGTCG
142081 GCCTTCTGAC CACGAGTCCT GCGGCTATGA AAGAGGAAGC CGCGTTTCTG GCGTCTCTCG
142141 CGAGTCGTGC AGCCCGCCCT GCTCCAGCTG GGGACACCGG TGGTCACGGC GCTTTCCAGC
142201 TGCAGATCCA GCGGCGAGCC CAAGATTTGG TCCAGCCGCC AAGGGGTGGC TCGAGTGAAT
142261 GACGGGCCTT GAACGCTCCC AGGACCCACA TCTGGAGAGG GAGGTGGGGG TGGGGTGCTG
142321 AAGTCATTCT TGGGGCCCTT GGGGGCGGGC ATGGACCTGG GTAAGGCCAG AGAAATTGAC
142381 ACCTCGTGAC ATCCCTGGAA GAGAAGTACG TTCAGTGTCA CTCCAGAGCT GAAACCGCCT
142441 TCTGGCTGGT CCCTCCTCAC CTACATCTT TTTAAATTG TCTGGAGCAG GCCGGGCATC
142501 TGTATTATCT GGTTATTTAA ATATCTGGTT ATTTAAAGC TCTCCATTAA ATTCACATAC

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142561 ACGAAAATAA AAATTAAAAA AAATTTTAAA AAAAAGAAAC AAAAGCTCTC TAATGACCAA
142621 GTCCTACACG ATAGTGAATA AATTTTTTTG TGTGGTCCCT AAAATTGAGT TCATGCCTTT
142681 TCTGAAGTAA TAGACGCCCC GAGAAGGGAT CGACTTACCC ATCATGCCAC AGAGATTAAT
142741 TGGCCCCAGA ATTCTTTAGC AGACCGTGTA TATGAACGTC CTTTGCAATC ATATAAATTA
142801 ACTGGGAAAA CCTCATTAG TATGTTACAT GCCTAGCGTT TTGTGCCTGA ACACCTTACA
142861 AGAACCAGGG ACTATTGCCC CAATATTATA TTTCAGGAAA GGAAGGCCCA GACAAATGGT
142921 GTCCTGGTC CACTTTCACC CAGTTGGTAA ATGAAACCAG AAATTATAGC TGTACCACAG
142981 AAAGGTGAAA ACGTTTCTTT TATAATTTCA CATACAATCT TTAATGGACC CAGTGTCCAA
143041 CACATTAAAG CAAGTGCTCA GGAGTGACAT CAAGATGTAA AAAATAGTCC TGTCCTCAGG
143101 GAGTTTAGGT CTTGGAGAAA AGAGACCCAA GGAGACACAA GACAAAGGGG AAAGAGAAGG
143161 AGCGCTGAAG ACTGAGGACC CTGCGTGTGG ACTGAAGTGA GGATGGGGAC ACCCGATGCC
143221 CGGAATATGA CAGTTTGGAG GGGCCTGAAG GACTCTTCTA TTCTCTATCA GAAAAACAGA
143281 ATTACTCTCC TAACCAGAAA AGGTATTTCA ATTTATATTT TCCATCACAG CACTTTTCTG
143341 GTGATAATTT AATGTGTTTT AAAAAATGTA TCACAGTGAT GGCCTGGTGT GAAATAAATA
143401 ATAAAATTTT AAGAATTAAA AAATATAAAA ATCTTTTATA TAGACATTAG GAGTTACAAG
143461 GATAACTGTG AATTATAATT AGTAATTAAA TTGAAATACT GATTATTTTC ATTTTATTTT
143521 AATTATTTAA TAAAACCTAT TTAACATTTA ATATTTATCA GTAATTAAT CTAATTGTTA
143581 ATATTTATTA TTATAAATTA TTTAGAATT AAAAAAAGT GTAGAAGCGA GGCATGGTGG
143641 CTCAAGCCTG TAATCCCAAC ACTTTGGGAG GCTAAGGTGG GAGGATTGCT TGAGCCCACT
143701 AGTTCAAGAC CAGCCTGGGC AACATGGAGA AACCCTGTCT CAATACAAAA AAATGAGCCA
143761 TGTGTGGTGG TGCGTGCCTG TAGTCCCAGC CATTCTGGAG GCTGAGGTGG GAGGATGACT
143821 TGAGCCTAGG CAGTCAAGGC TGCAGTGAGC CCTGATCTTG CCACTGCACT CCAGTCTGGG
143881 CAACAGAGCA AGACCCTGTG TCAATATACA TATGGACAAA CTTAAAATTT AAAATGAAAG
143941 CATACTACTG ATACAGAATT GAGTAGAGAT GCAAAGCTAG TCCTATAACC AGAACAATAA
144001 AGATAAAAAG GAGAGTGGAA GAAGGTATGT CATGAATTC ATGATAAATG GCAATTGCAA
144061 ATATCCTGTA GCAGAACAAA ACAACAAAAC TGTAGATAAA ACATATCCAA CCCTTTGGAA
144121 GGCCAAGGAG GGAGGATTGT TTGAGCCCAAG AAGTTGGAGA CCAGCCTGGG CAACATAGTG
144181 AGACCCTGTA TCTAAAAAGG AAGAAAGAAA AAAAAAAGAA GGATGATAAA GTAGACAATA
144241 TTGAAAGCCA TTTTCTGCAA ATACATAGTG AATTTGATCA GTAATTTTCT TCCAACAGTG
144301 CAAAAATGAA TAGATATTAG TTGCCTGAAA TAAAAATCAA ATATCCAACA AAAAATATTG
144361 ACTATCTAAT AGTATCTAAG CTAGTAAATT TGGCCAGTTA TAAAATGTCT TAAATTTTTA
144421 TTTAAAAAAA GAAAACCAT TTTATAAGAA GAGGTGATAA AGAGAAATTA TTTAGTTAT
144481 GAAGATTTTG TTAGAAAAC TATGAGAAAA AACTATTTT TGTTTTCAAA AAGTGAAAGA
144541 TTAAGTTACC AAACAGTTGC TAAAGAATAC CAGATGGCTG AGCGTGGTGA CTTATGCCTG
144601 TAATCCCACT ACTTTGGAAG GCCAAGGCAG GAGGATCATT TTAGGCCTGG AGTTCGAGAC
144661 CAGCCTGGGC ACTGTAGCAA GACCCGTCTC TATTAAGAAA AAAAAAAGAA AAAAAAAGA
144721 ATACAAGACC TTGCTAACAA TAGCAAAGAT CAATTAATTC AAAATTGAAA AAACGTAAAT
144781 TTATTTAGCT TTAGAGTACT CTCGTGATAT GAGATTGCCA AATTAATACT TTGGGTGCAT
144841 TTCTTTTCTC AAAGGACTTG CAAATTTACA AAGAAGTGTT GAAGAAAAGC CACACATTGG
144901 CAGGTAATGT TTGCAAAAGA CAGATCTGAT GAAGAACAAT ATTTTGTAGAA TATACAAAGA
144961 ATACTTAAAA CTCAACAGTA AGAAAATAAC CTGATTTAAA GCAGGCCAAT GACCTGAACA
145021 TCTGTTTACC AAAGAAGATA CACAGATGCA AGTATGCATA TGAAAAGATG CTTGACATCA
145081 TGTCATTAGG GAACTGCAAA TTAACAAGG TAGATAACCAC TGCATACCTA GTAGAATGAC
145141 CAAAATTTAG AACACTGTCA GCACCAAAGG TTGCAAAGAT ATGTAGCAAT AGTAACCTGT
145201 TCATTACTGG TGAGAATGCA AAATGTGCAA TCACTTTGGA AGACAGTTTG GTGGTTTCTT
145261 ACAAAGTAA CCATACTTTT ACCATAAGAT TCACCAATCA CACTCCTTAG TATTTATCCA
145321 AAGGAATTGA AAACCTATCT CCACACAAAA ACCTGCACAT AGATGTTTAT AGCAGCTTTA
145381 TTCATAATTT ATCCAAAAC TGGAAACAAG ATGTCTTTCA GTAGGTAAGT GGATAACTGT
145441 GGTACTTCTG AATAATGGAA TGTTATTTAG AGTTAAAAAG AAATGCATTC ACTTTGGGAG
145501 GCCGAAGTGG GTGGATTGCT TGAGGCCAGG AGTTTGAGAC CAGCCTGGTC AACATGGGAA
145561 AACCCCAATT AGCCGGGCAT AGTGGCGTGA GCCTGTAATC CCAGCTACTC GGGAGGCTGA
145621 GATATGAGAA TCGTTTGAAC CTGGGAGATG GAGGTTGCAG TGAGCCAGTG CCACTGCACT
145681 TCAGCCTGGG CAACAGAGCA AGACTCCTCT GTCTCAAAAA AAAAAAAGAA AAGAAAGAAA
145741 AGAAAAAAGA AAAAGAAAAA GAAAGAAAC GATCAAGCCA TGAACACACA TGAAGGAAAC

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145801  TTAAATGTAT GTTACTAAAA AGCCAACCTG AAAAGACTGC ATACTATATG ACTCCAACCTG
145861  ATGCAGGGCA AGCAAGCCAA AAATTAGGGC TTAGCCCGGG AAGAATTCAA GGGTGAAGTG
145921  GTGGTGTTAG CAACTTTTAC TGAAGCAGCA GTGTACAACA GCAGAACAGG TACTGCTCCT
145981  TGCTGAGCAG GGCTAACCCA TAAGTAATGT GCCCAGAGTA GCAGCTCAGG GGCAGTTCTG
146041  CAGTAATATA CCTGCTTTTA GTTAAGTGCA TGTTAAGGGG GATTATGCAG AAATTTCTAG
146101  AAAAAAGAGTG GTAACCTCGG AGTAGGTACA GAGGAAAGAA GTCGATAATG TCCTGTTGTT
146161  GCCATGGCAA CGAAAACTG ACATGGCGCT GGTGGGCGTG TCTTATGGAG AGGTGCTTTA
146221  ACCTCGTCCC TGTTTCGGCT AGTCTTCAAT CTGGTCCGGA GTAAAGTCCC TGCCTCCGGA
146281  GTTCACTCCT GCTTCTGCT TCACAACTGT ATGACACTCT AGAAAAAGACA GTAACATTGG
146341  ACACAGTCAA AAGATTAGTT GATAGAAATT GGGTGACAGG AAGTGTGAA AAGGCAGAAC
146401  ACAGGATTTT TAGGGCAGTG AAACCTCTGT GATACTATAA TGGTGAATAC ATGACATTAT
146461  ACATTTGTCA AAACCCATAG AAAGCACAAC ACCAAGAATA AACCCTAATG TAAATTACAG
146521  ACTTTCGTTG ATAATGACGT GTCAATGTAA GTTCAATTGT AATAAATGTA CTACTGTGGT
146581  GCTGGATGTC TATGGTGGGG GGACATTTTT GCTTCAATAG TTACAGTTGA AGTAAATGTT
146641  TGTGTTTCCC ACAATGCATA TGTAGAAACT CTCACATTCA ATGTGATGGT CTTTGGAGGT
146701  GGGCTCTTTG GGTGATAGTT AGGTTAGTT GAGATCCTAG CAGATCGAGT CTTCATGATG
146761  GGCGATGATG GACTGGTCCC TTATAAGAAA AGACCAGAAA GCTAGCTCTC TCTTTGCCAT
146821  GTGAAGACAT AGCAGGAAGG TAGCCATCTG CAAGCTAGGA AAGGGCCTTC ACAAGAATC
146881  AACTCAGACC TCAGAACAGT GAGAGATAAA TTGTCGTTGT TTAAGTCACT CAGGCTGTGG
146941  TATTTTGTGT CAGCAGCCCA ACCTAAGACT GTTAATTGGA TTAGAAATTT CTTTTGGGGG
147001  ATGGTGTGTG GCGGCGGGGG GCGGGGAGT ACCTTTGTTA AGCTTTTATA TCAATGAGTT
147061  TGTAGGCTTT TCTTTTTTGG TCATTGACTA GGACAGTTTA AATAGTATGA GTGTGAAGGA
147121  GATTGTTGGT CATCTATTCT ATGTCCCTTC TCTGTTTTTT AATATGAGAA CTCCTGATTT
147181  TCAGCCAACT ACCCTGGAAG AAAAGCTAAT CTTTCTGACT TCTTAAGTGT GGCCATGTAC
147241  TAAATTCTGG CTAATGCAAG GCAAGCCAAA GGTTTTATGA TAGGTTTATG GACACTAGAG
147301  TAAAAGAGAG CTGTTGCACA CATGCTCTTC ACCCTACTTT TGTGTCCTTT TTCCATCCT
147361  ACAACTTGGG TTGTGAGTAT GATGGCTGGA ACTTTAGTGG CTCTCTGGA TCCCAGGGGT
147421  AATTGAGGGG TGGCTGGAAG GAATCTGTGA TTTTCTGGAG TTCCATACA CAAACAAGAC
147481  CTGGATTTTC TGGGCTTCCC AGACTTCCAC ATCTAGACTT GCTTTAAATG GGAGATAAAT
147541  AAACCTGTTT CAGCCACTGT CATTTTGGGC TATTTTATAG AACTTAATCT AATCTTCAAG
147601  GGTACATGAA TTGCTTTTCC TTAAAAAATA AATCAGCCAT AAAATCATCT TCTTTTTTCT
147661  TTTGTTCCCC ACATTATTTA GTTGGAGCTC TGTAACTTTT TTTTTTTTTT TTTTGGAGAC
147721  AAGGTCTTGC TCTGTCACTT AGGCTGGAAT TCAGTGGCAT GACCATGGCT CACTGCAGCC
147781  TTGCCCTCCT AGGCTCAAGC AATCCTCGTC TCAGCCTCCT GAGTAGCTGA AACTAAGGCA
147841  CATGCCACCA TGCCAGCTA ATTTCTTTTC TTTTAGAGAT GGGAGCCTTG CCCAGGCTAG
147901  TCTCAAACCT CTAGCCTCAA GTGATCCTCC CATCTCAGCC TCCCAAAGTG ACAGGATTAC
147961  AGGTGTGAGC CACCATGCCT GGCTGCTCTG TAAGTGTCTG AATTTTATTT TGTATTTATC
148021  AGTCTGTTTA GATTTTCTTT CCCTTCTTGG GTCAGTTAGG CCATTGGTTT CTTTTTAAAG
148081  GTTTTCAAAT TTATTTGCAT CTAATTCTTC AAATTACTCT CAAAATTATT CCAGTATATA
148141  TTCTTTTGTT CCTATTTTCT TCTGTATTCT TTATTAAAT AGCTAATGAT TTATCTAGCA
148201  GGACTTATAT TCTTTCCATA ACTTTCCTGC ACCCCAATTA ATCTCCAATT TTATATTTCT
148261  TCTGGCCTTC CTTATAGTTT CCACAGGTTT ATTTTATTCA TTTTTTAAAA CTTTTATTTA
148321  ATTGTTTATT TATTATCAT CTAGGCTTTA TCAGCAATCT AAGTGCTTAG GGATATAGAA
148381  TTTCTCTTAA GCAGCATATG CACAGGACTG TGGGATGCCA AGAGGTAGAG AAGAGCTTAT
148441  GAAGACCACA CTTACATTAA CACAGGACTG TGGGATGCCA AGAGGTAGAG AAGAGCTTAT
148501  GAATATCCAG ATTACATCTT CACTGATCCT GCACAAAGGT GGGGTTCTCT GGTACCAC
148561  TGGGTCCTAT TACCCAAGTC TGGGTCAGCA TACCGAGACT ACGGGTATAT AGAACAAGTG
148621  CAACTGGCGA TAATCCTTCT GTTGGGGAGA AAAATCTTTT TTTTCTATTC ATCTTAGGTT
148681  CTCCATCTGT GGCCCTATCA AGTAGACTAA CAAAAGACAG ATTGACAAGA CAGAAACAAA
148741  GCATGTGCAT TGTACAAACA CAGGGGAGTA CTGAGATGAA TACTCAAAAG AGGATTTAGA
148801  ACTTGGGCTT ATATAGCATT TTAAGAAAAG AATACATTTT TTAAGTGACA AGGAAGACGA
148861  AAAGGACTTT GAGTTTCTAG TGCAGTAAAT TGTGGGAAGG CAACTTTTTC TTTCCCTTTT
148921  TTTTTTTTTT TTTTTAAAAA AAAAGACTTC TCTGTGCTA TGTCCAGGCT GATAAGAGTC
148981  TAAAGTCTCT GGTGACTAAC TTTTGTCTT CCCCAGATA GAAGACACCT TCACAATTC

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149041 ATATCCTGCT TTTAGGCCAAA TAGGGAGAGG GCAGAGGTGT TTGTTTGTGT TTAATCTATT
149101 TTTTCTCTCA ATTGTCTTCA ACTCAAATA CTTCTTATGC CAAAGATGGC ATATTCTGCT
149161 ACCCTTCACT TACTACTTAC AACCCAGCCT CTATCATCAT AATTAGAACT TCTGACCCTG
149221 GGGAAACATGG GCAATAGTTT GAACTCTTTT ATATCTCCCT TAGGCAGAGA TGGAGGCCCA
149281 GCCATGCCTC TGACATCTAG ACACAACGTG TGCTTCATTT CTCCTATTCT CAGAGGTGAT
149341 GTTGTAGGAC TTCAACAAAT ATCAGTAAAC ATTAATTTT TTTTTCCTTG AGGCACAGCA
149401 TGATCTTGGC TTAGTGCAGC TGCTGCAGGC TCAAGCAATT CTCCTGCCTT GGCCTCACGA
149461 GTAGCTGGGT TACAGGCCCC TACCACCATG CCCGGCTAAT TTTTGTATTT TTAGTAGAGA
149521 CAGGGTTTCA CCATGTTGGC CAGGCTGGTG TTGAACTCCT GACCTCAAGT GATCCACCTG
149581 CCTCAGCCTC ACATAGTTCT GGGATTACAG GCGTGAGCCA CCATGCCTGG CCATCAATTT
149641 TTATGTCAAC TCTAAATTAT AACATTTAGC AATTTTGTGA CTTTTTATGG TCATCATTAA
149701 TGTTGTTTAT GTTTTAGTTG TAGTCTGTG ATTACTCACT CGGGTATGGT AATTTGGTCT
149761 TTTTCAAAT GAAGTTAAGG TCTATTGCT CTTCTCTGAA TCATAATAAG AACTGCCAAC
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149881 GCAGACTGGA AAATACCAA TTCTTTTCCA GAACTGAATC CCCCATCAA GTTCAATTTT
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150061 CGCTTAGATT ATTAAACAAC ATGTCAGTGG TTGGAAGAGT CAATGTTATT TTGATTTTTC
150121 TGTTTTGTTT TGTTTTAAAT GCAGTTGGCG GATAATTGCA GCTTCTTTT ATTCCCTACA
150181 TGAGTTCAAA TGGCAGCAA CAACTAGGA GAACGCAGAC CTTCTGACTT GTGGGTACCC
150241 CTACTCATCA CCTGAAGACC CTTGGAAATC AAAGCCCTGA CCCATTAAAG ACGGATGGAG
150301 ACAGCAACAT ACGATCATCA CTATTATCTT GCTTTGCCCC AGTCCAGGTT AACCATCTGT
150361 GGTATTTTTA GTTGCTAAGT CCATATATTC AACATAATC AATTATATAT CCACTAAAT
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150481 CTTATGGGAT TTATATTATT TTCTCTGTGC TGGTTAAACC AAGGAGCTTC TGCTCTTTTC
150541 CTAGTCACC TGGGGGAGGC AGAAACAAG GAGAATATTG ATAAACCTGG AAATAGGGCC
150601 GGAGAGTATC AGAGAAGGAA GCCTTCGGGA AAGTAAAGAT GTGGCAGCCA GTATTCCCGT
150661 TATAAAGGA TACAACCTCG GCCTCATAGT CCAGAAAAAT TCCACAAGC AGGGGCTGCT
150721 CATGCAGATG AAGGGAAGTT GGGGAGAAG TAAGTGCTAC ATAGCCTTTC TTTTGCACA
150781 GCCTGAGGGT CCAGAATCCA GACTGAGGCT CTTGCTTCAT GCCAGTGCCC CTCTGCACAT
150841 TTTCCATACA AACTCCTAAA TCCATCCGG TTCCTTCGCC AACATCCACT TCAAAGTAAC
150901 GTCTTCTGTA GGTGAAGCCT TCACAACCCA AGACACAGGG GAAGGCAGTA AATCTCCTGG
150961 AAGATGTGTC CTGATTCTCC TGGGTGTATC CACGAGTCAC TTGTCTCCGA TCTCAGAGA
151021 GAATTAGTTC GTGATGAGCT GTATCTGGAT CCAGAGTCAC ACTAAGTGA AAACAAAACA
151081 AAACAAACAA AAATAATTTT GTTGCTGTA AGAACACAGG TTATTTTATT TTATTTTATT
151141 TTGAGATGGA GTGTTGCTGT CACCCAGGCT GGAGTGCAT GGCATATCT CAACTCACTG
151201 CAACCTCCAC CTCCTGGATT CAGGCAATTC TCCTGCCTCA GCCTCCGGAG TAAGCTCGAC
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151321 CGCCATGTTG GCCAGGCTGG TCTCAAACCT CTGACCTGAA GTGTTCCACC CACCTCGGCC
151381 TCCCAAAGTG CTGGATTACA CAGGTGTGAG CCACCATGCC CAGCCACAAG TTATTTTCAA
151441 TAAAACCAGC CTGTGTTCAA ACCCAACTAT TGTTTCTTAT AAAGTGGGTG AGCTTAGGCA
151501 AATCATTTAA CTTTCTGAGC CTCAGTTTGT TAACTATAAA GTGGAAATTA CCGTATTTGT
151561 TGCAGAGAAT GGTGGGTAGG ATTGAATAAG CTTATGTTTG CTTAATGCTT GGTAAAATTC
151621 CTGGTACATG GTAACACCT AATAAGTGGT AGTTGTTGGG GTGATCAGGC CCAACACCAG
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151861 ACAGGTGAGG GCATGAGGAC ATGGGGGTAG AAAGGTAGTG GTGCATTAA CGTAGCTGTG
151921 ACAGTTTATG ATTTTCTTTG ACACATGTAG AATATACTCT GCTGCTTGG ATAGTAGAGG
151981 ACACGTTTAT GAGTGAAGG CAAGGAACCA ACAAGTCTGT GCATTTTCCA GAGGCTATGA
152041 GGGGTTTTAT GCCCTGAGCC CTGGGTTCCTA TCCAAGCCAC AAGGGGTTTT ATGCCCTAGG
152101 CTTAGATTTG TGGTGCGGCA GGGCAGCCTT CCACCATTTG GCACAGAGCT TGGTGTTCCTA
152161 AAGGCCACGA GGGGTTTTGG ACCCTGGACC CCGGACATCT TCCAAGACTC TTTTACATTA
152221 TGACAGACAA GCCAGTCTCT CTTAGCTCT TCTAACACA TGTAAGTAATA ATGATATCAT

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152281 CAACATCATC TTCGTCTTAA TTATTCAAGG ATGCCAAGGT ACAGAACTAA CCTGTTAATA
152341 TGGTTACCAT CCTGTCCAAA GTTCTTCTCC CATGCAGGAC TTCCAGGAAT CATGAGACAG
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152461 GAGGGAAAAT GACTCAGCTA ATGTCTTAGC TTGTTATTGG AAGACCCAGG TCTCATGACA
152521 CATGCCTAGT CCCATGACTT TTAATTGTAA GCTCTTCTCT TTCCCCTCAG ATAATGTTCC
152581 ATAAGCATTG GTATGAGATA ATAATACACT GAGGACCAAT ATACATGAAA AATATCAGAC
152641 TAGAATCAAA CAAGACAGAA AAAAGATCTG ATAACCTAAA GTGAGATACT GAACAGTATG
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152761 TGCTACTGAG TTAAATGTTG ATCAGTTGGT CTGTGACAAT TAAGGAATTC AAGTATTTCAG
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152881 TGTCTTGCTC TGTGCCCAGG AAGGCTGACA TGGACAGATT AACCAGGCTT TCCGCCCTCT
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153061 TGGGCACACT CTAGTATAGT TACAGCTCCC TACACCTGCC ACTTGAGGCC CAGAGGAGGT
153121 GATGGCTCTC TAACTGTTCC TAGTCTGTTG TGCTTCCTGT TCCTTGTGGA TTTCCTCACT
153181 CCTCACCTTT GTAAATACCC TCCTTTTCA AACTCTATTC AGTTAGCTTT TATCAGCCTG
153241 ACTCACAGAA GTTTGGGGTT TCAATTCATA TTACCTGAAT GACCCAGGAA AACCCATGTT
153301 GAGAAATTAA AATGTTTACG GGGTGGTAAT ACCACTTAAG AGAAAAATA TCAATTGGAT
153361 TTTTAAATTT CCACCTATCT ATTGGTGTGA CACATCAACA AAAACATATA GAAAGATTGG
153421 AAGCTAAAAG ATAGATAATA TAGTCATATA CTGTTATAGT ATTATATCAA AAGATATTAA
153481 GTCAGAGCAT TATTAAGAAT GGAAGAAGGG CCAGGTGTGG TGGCTCATGC CTGTAATCCC
153541 AGCACTTGG GAGGCCAAGG CAGGCGGATC ACTTGAAGCC AGGAGTTCAA GACCAGCCTG
153601 CCCAACATGG CAAAACCCTG GCTCTACCAA AAATACAACA ATTAGCTGGG CATTGTGGCA
153661 CATGCCTGTA ATCCCAGCTA CTGGGAGGC TGAAGCACAA GAATCACTTG AACCGGGGAG
153721 GCAGAGGTTG CAGTGAGCTG AGATTTCGCC ACTACACTAC AGCCTGGGTG ACAGAGAGAG
153781 ATTCTGTCTC AAAAAAAAAA AAAAAGAAAG AATGAAAGGA GTCACCTAAA AAAGATAACA
153841 CAATTTTAAA CATAAATGTA CTACATTATT AGTGAATTCA TGTTTAGAAT TGTGTTAATA
153901 TACAAAGCAA AAATGTAGA ATTATAGGAG AAATGGACAA ATCTACAATC ATCATGGGAT
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154261 ACTAAAAGA TTCTAAATAT TAGGAAATGT AAACCTACTA TAAGTCATTA GAAGATGTAT
154321 AGAATGGAAC AATAATAAAA AGTTATTTAT AAAAATATAC AATGAAGCTA AAGCAGAATT
154381 TTAAGGAAAA TTTGTAGGCT TTAAATGCTT ATCTTAGAAA AATTAAAAAG CTGAACATTA
154441 ATGAGCCAAG CATCTAATTT AAATTTTAAA AAGAACATAG AAAGCCAAT ATAATTTTTT
154501 AAAAAGAAAA AATAGATATT AAACAATATA ACAGTGAAGT TAAAGAAAAC AAGAATGCAA
154561 TAAAGAGGAA AAACAAACAA AAAAAAGGT AGCTTCTTTT AAAAGAAATT TAATAAATA
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154681 AAACTTTTTA AATATTACAG AACTTTTATA TAAATCTTAT GCTACTAATA AAATTGAAAG
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155461 CTTGAGCCTG GGAGGTGGAG ATTGCAGTGA GTCGAGATTG CGCCAGTGCA CTCCAGCCTG

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155521 GGTGGCAAAG GGAGACCCTG TCTCAAAAAA AAATTAAAAA ATTAGCCAGG TATGGTGGCC
155581 TGTTCTCTGTA GTCCCGAGCA CTGGGGAGGC TGAGGTGAGA AGATCACTTT AGCTCAGGTG
155641 GTGGAGCCAT GATCGCACCA CTGTACCACT CGGCTTGGGC AACAGAGTGA GAGCCTGTCT
155701 CGAAAAACA AATATATACA CACAGTAATC AATATATATA TTATATGTAC CAATCAATGC
155761 TTCACTTTTA TATATAATAT AGATTACATC TTATTAGATA TATAGTATTC CTTCTCCATA
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155881 ATATATCTAT AGCATATAGA GATGCTGTCT CAAAAAATT TAAACATCAG CCAGATGTGG
155941 TGGCCCATGC CTGTAGTCCC AGCTACTGGG GAGGCTGAAA TGAGAGGATT GCCATTGATC
156001 CTCTCATTGG TTGAGCCATA ATCCGACTAC TGCACCACTC AGCCTGGGAG ACAGAGGGAG
156061 ACCTGAGGTG GAAGGATATA GATATAGATA TATAAATAAA TATGTATAGA GAGAATATAA
156121 TATATGTGTG TATGTGTATA TATATATATT ATGAAGACAC TGGGAGAGAA TACTATATAT
156181 ATATGTGTGT GTGTATATAT ATATTATGAA GACACTGGTG GGATGGTTTC ATTACCAATT
156241 GGACCAAGAG TCCAGGTATG GAGCCAACAT GCAATGTTGT TGTTGACTGA GCTGGCAGAG
156301 CACTGGTCAT AGTTACGGGA AAAGAAGGTC TCCAATGAGA CATACTTAAC AAAATATATG
156361 AACTTGCCAT ATACGTGGAG AGTTCTGGTG TGTATATAGC CTTCTCTCAC CAACCTAGCA
156421 ATTGTCCTCA TCATCATTAT AATGCTATCA GAGCAAAGAT GACAGCTAAA TTTTTTTGTC
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156601 GTGGCACAAT CTCAGCTCAC TGCAACCTCT GCCTTCTGGG TTCAAGCAAT TCTGCCTAAG
156661 CCTCCAGAGT AGCTAGGACT GCAAGTGCAC ACCACCACAC CTGGCTAATT TTTGTATTTT
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156781 ATCCTCCTGC CTCGGCCTCC CAATGTGCTG GGATTACAGG CGTAAGCCAC TGTACCCGGC
156841 CTCCTCCTTT AATAGACAGG GTCTAGCTCT GTTGCCCAGG CTGGGTACAG TGGCGTGATC
156901 ATAGCTTACT GCAGCCTCGA ACTCCTGGGC TCAGGAGATC CTCCTGCCCT AGTCTCCCCA
156961 GTAGCTGGAA CTACAGGCAT AGCACACGGG GCTAATAAAA TTAATTAGGT GATAAAATTC
157021 ACTGCCCACT GATGACTAAG CTCTTTGGAC ATAAAGACA CAGACCTTGA AGGAAATGT
157081 GTCTACTTAA TTTTGAAACC CTATTTATCA AAAACAGGA TGAAATGCA AAATGCCATC
157141 CACATGCCAG AAGATATCAG CTATAATAAG TTCCCATAAA TCAATAAGGA AAAGAACCCA
157201 ATAAAAATTA TTAAACCACA GTAAATCATG GGTAAATCAC AGAGGCCTGA AGGGCTAATG
157261 GACATACAAA AAGAATCTCA ATCTCACTAG TGAAATCAGA AAAGCACAAA TTAAGTACAC
157321 AATTAGGTAC CATTTTAAAT CTGTAAGACT GTCAAAATCA TAAATTATAT AAGTAAAGAC
157381 TCAGGGAGTT TTGGAGGAGT GAGAGCTCTT ATATTGCTTG TGGGGTAGAA TTGGAACAAT
157441 TTCAAGATCT GTAGTATCTG GTAAATTAT GATATGCATC CCTCACACCA GCATGTCACT
157501 CCAAGGTATC TCCCTGGAGG GAACATTTAC GGGACACAAG GAAGCATGGA TAAGAATGTT
157561 CACAGTAGTA TTGTCTGCAA CAGCAACAAC AACAAAAAAA CCCAACTACA CACAACTTCA
157621 ATGCCCAGTC CACAAGGCAA TGGATTAAT AACTTCAGG CCGGAGATGG TGGTTCATGC
157681 CTGTAATCCC AACACTTTAG AAGGCCGAGG CGAGAGGACT GCTTGAGCCC AGGAGTTCAA
157741 GACCAGCCTG AACAAAATAA AGAGATAGTG TTTCTACAAA AAATTTTAA AAAATTAGCC
157801 AGACGTGGCA GTGCTTGCCCT GTGGTCCCAG CTACTGGGGA AGCTGACGTG GGAGGATTGC
157861 TTAAGCCCAG GAATTTAAGG CTGCAGGGAG CCATGATGGG GCCATTGCAC TCCAGCCTGG
157921 GTGACAGAGT GAGACCCTGT CTAAGAGAGA TAAGTAAATA ACAACTTTGC ATTTTCTGCC
157981 ACATTGCAAA ATGGTGAGAG AGTGGTTTCT AGACTCTAGA CTCTTTCTAT GACTACCTTC
158041 TAGTTATGAG ATCTACAAC ACTCACCTAA CCTCTCTGTG TCATATTTCC TCCTCTATAA
158101 AGCAAAAATG CCCCATATAG AGAGGACTGT GATATAAAC AAGAACCAG AAAAGTAAAG
158161 CTTTTCTAAT CTGTCACAGA CTAAAGAGTG CTCAGTATAT GTGAGTCATT ATTCCTGGTG
158221 CTGGTAGGAG TGTATGTTAC AACTTTGAGT CAAGTAATAT GGTACCATAT ATTAAGATTA
158281 ACAACAACCT CGGCAATCCC AGTTTGGGGT ATGTTCCCAA AAGAAATGAA AGCACCAGGA
158341 TATAAGGATG CATGGACTAG AAAGTTATTG TAGCAACATT GTAATACTA AGTTCTAAAA
158401 ACAGCCTGAA GCTCCATCAG TAGGGATATG GTTACATATA TTTATTATAT TCTTATGGAA
158461 TATTAGACAT AAAAAGTAAC GAGTAACATA GAAGAGACAG TGTATATATG TTACGTTTGT
158521 ACAAACCTAG GGAAAGATAT AGATCACCCT ACCTAGAGAA GTCAGATTGG AGACGGGTGG
158581 GAAAAACCTT GAACTTTCTC CTTATATCCT TTATATTGTT TGACTGATTA AAATGTATTT
158641 GTTGCATCTG CTTGAAGGCA ATGTAAATA AAATAACAT ACATTTAAAA ATAAAAATAA
158701 AATTTATTCC TATCACTTTT GTAATAAAGC TGGGCACAGT GACTAACACT TGTAATCCTA

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158761 GCACTTTGGG AGGCAGAGAC AGGCAGATCA CCTGAGGTCA GGGGTTTGAG ACCAGCCTGG
 158821 CCAACATTGT GAAACCCCAT CTCTACTAAA AATACAAAAA TCAGCCAGGC ATAGTGGTGC
 158881 GTACCTGTAA TCCCACGCTA CCCGGGAGGC TGAGGCGCTG GAACCCAGGA GGCAGAGGCT
 158941 GCAGTGAGCT GAGATTGCGG CACTGCAAGC CAGCCTGGGT AACAGCGAGA CTCCATCTCA
 159001 AAAAAAATT TGAAAAAGA AAAATTTTAA TAAACAGTGT TTAAGAGGGG AGAAATATTT
 159061 AGTTAAAAGA TAAGCCCAT TAAAGAAATAG TTCACTTGA CCCGGAAGGC GGAGCTTGCA
 159121 GTGAGCCGAG ATCGCACAC TGCCTCCAG CCTGGGCGAC AGAGCGAGAC TCTGTCTCAA
 159181 AAAAAAATAA AAAGAAAGAA AGAAAGAAAAG AAATAGTTTC ACTTGAACCA TATTATGATT
 159241 CCTTCTGTAA AAGATGAGAG TAGGCAAAAT GACTCAGTGA AATCCAGCA AAACCTACAC
 159301 AAAGTCTTGT TCTTCTTCC TGTCATCTGT ATAGGATGAA ATACAGAGTG CTTTGGGTT
 159361 TTGTGTGTGT TTGTGTGTGT GTATTTGAGG GGAACACAGG TCTATAATTC CTTTCTGAA
 159421 ATCCCTGGAA CAAATGGGC TTTGCCATTC AAATTAGTTT AGAAGTTATA AAGGCAAAAA
 159481 AATGCATATA CTCTAAAGTT CAACCCCATC ATGGCCTAAG GCAGAGCCCT GTAATCAAAT
 159541 TCATCAATAT ATCTGCAGCA AAACATTTAT TCAAATTAAG TGGGATAAAT AAAGACTTTT
 159601 AAATAGTCTC ATCTCAGTGC CGTTCAGGGT TGGCCACTGT GGAAGACAGA CTCAGGGGTG
 159661 GCCTTCTATG ATTCTGCCT CTGGGTGTTT ACACCCTCGT AAAATTCCTT GTCTTTGAGT
 159721 GTGAGCAGGG CTTATGAATT GCTTCTGACC AATAGGATAT GGCAAGATG ATGGGATATA
 159781 ATTTCTATGA TTACGTTTCA TTATGTAAGA CTCCATCTTG CTGGCAGATT TTCTCTAAG
 159841 AGTCTGTCTC CTGAGCTCTC TCTGAAGAAA TAACTGGCCA TGTTAGAAGC CCAATGTCAA
 159901 AGAGCTGAGG GGTGGCCTGT AGAAGCTGTG GGCAACCTCC AGCCAACAGC CAGAAATAAC
 159961 CAGGGCCAAA GTCCTGCAAC CATCAGGAAA GAAATCTGCT CTGCTACCTC AGTGAGCTTG
 160021 GAAGTGGATT CTTCTTAGC CTAGCCTCCA GATAAGAACA CAGCCTGACC AACACCTTAA
 160081 CTGAGCCCTT ATCAGACCCT AAGCAGCAGG CCCAACTAAG CTGTGCCAG ATTCTGAAC
 160141 CACAAAAATT GAGATAACAT ATCAGTGTG TATTAAGGTT CTAAATTATG GTAATTTGTT
 160201 TGTACTAATA GATAACTAAT ATAACCACCA AATCATTTC GGTAGGCCA GATTTTGTGTA
 160261 GCCAAATGAA TCATGATAAA ACTTTCCATT TTCAGGGGTT TTTTGTATT TGTACTTACG
 160321 GATACAAATT TGTGAAAGTA TAGTCAGCAC TGATTTAAAA AATCAAGGGA GCAGGAAACT
 160381 CAGTAAATGG TTCTAACATT TTGGAATCTG TAAATTGGTT GTAACATTTG TCATCTGTGT
 160441 TATCTAAGTC AAGTTCCTAA AATATGTGAA TGATAGGTTA TCATACTCAC CTACTTTTCT
 160501 TGCATTGCTC TAAGAGTTGG CTGAGCTATT GATAATAAAC ACTATGATCA GATCTAATAC
 160561 CATGATGTGC TATTATGATC ATGTGTCAGT CACAGGGCTA AGCACTTTGT ACATGTTGAT
 160621 GCATTTAATT TTGATGATAA CTCAATGAAG TAGGAGCTGT TAATATTTTC ATTTTTCAGA
 160681 GGGGGAACC AAGTCACTG GAGTAACATG GCTAATAAGT GAAAGAATAA GAATTTGAAA
 160741 GGTGTCACA GATAACCAGA ATGCAATGCT CATCACATTC ACTGAGCAGT GAATCATACT
 160801 AACTAGAGAA AGTATGAAAG CTCTACTGAA ATTAACATAA CAACCTCTCT GGCTGTGAGC
 160861 CTGCCAAGGG ACAGGTGGTA AACTTGGTTA CTGCATAAGG CCCCTTCTAT CCACAGTATT
 160921 CAGGAATTCT TTAGTGAACA TACCTTGATG ACTCCTTAAC ATTTTCTTCA CATCGAAGTA
 160981 AAGCTTGGAA ACATTGCACA TAGTATGAAG TTCCAAGGAG ACAGCCTCTG ATGTTTCCAG
 161041 CTTACAGACC CAACTCCTAG AATAAGCAGA GGCGAGAGAT TTCTTCAGAG GTGCATTCCA
 161101 TTCATTCTTA TATACGCACA CCCCTCCCTT CCTGCATTCA AACAGGACTT ACCTGCTCAA
 161161 AGTGTCAATC ACATTCTATA AAGAAACAAA AAGAAAAGGT GAGCATGGGA ACATCGGTAT
 161221 TTCAATGGGC TTGTATGCA GGGCTATTCT TCTTTGCTTT ACCCGAAGAA GTAAAGAGAG
 161281 TTACCCTAGT CTTAGTCTTA GATATTGATG GATACTCAA CAAAGTAATT CCCACCAGTC
 161341 TTAGGTATTG ATGGATACCC AGATGGAATA ATTCTACCA GCTTCTGGGA GATTCAGCAT
 161401 GGCAGGATGT TTATCAACAT TTGCATCTAT TCTCATCCTT GCTGAAGTCT GAGGGCCAGG
 161461 AGCTTTGTCC ATGCTCCCTC TGTAAGGACT AGCTTTTGGT GATCGGATTT CTTTACAGT
 161521 GAGCCCAGAT TAGAGAACAC TTATCATAAA GGTCTTAGT GGTGAATCTG TGCACAGCCC
 161581 TGAGACTGGG CCACTGCCAC TAAGATGGTG GTAGCAGGTA TCACACAGTG GTAAAGCAAT
 161641 CATGCTATAC ACTCAGCCTT ACAGTATAGT CACCAATCCT GTTAGTTAGA ACCAGAATTA
 161701 ATGGCTCCAG ATGTTTATCT TCCTACAGAT AAAGCTGTAG ATTGTACCAT AACAGCTCTG
 161761 GAGCAAGGGT TCTACAAGCA AATCAGGGAA AAGGTTATCA CTCATTTTGG CTGCCCCACT
 161821 TCATCACCCA TCAGTCACCT AGTGGAGTAT TTCAGGAGAG AGTCAACAAC CAGGGTTCTC
 161881 TGCACATGGG CCAAGGAGGC AAACAGTGGT AAATGTTATC CCGTGGTTTC ATTTGGCCAA
 161941 GCTGTGTTCC CTCAGAAGTT TATTTTCTA ATTGACATAA AGGTACCCTA TAAATTAGTG

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162001 AAGGCCAGCC TGATGGCACT GATGTACATC TAAAAGAAAC ATTACTTTAT CTTCCCATGC
162061 TTCCTTACCA TTCTCCTTTA ATAGCACTAT AACATACCTT TTTCCCTAC TCCAAGTACA
162121 CAGCCTCACC TGCAGCAATT TCTGGGCTGA GCCCTGACAT TTTTCTCCA GTTCCAGGAT
162181 GTGGCTCTTG AGTTCATTGC TCTTCAGCCC CAGACCAGCC TCATAGTCCC TCAGTCTACT
162241 CAGAGTCTGT TGTTCCTTCT TCTCCAGCCT CCAGAGATAA GACTTCTCTT CCTCATGTAG
162301 GAAACACTGG AGATTCTTAA AGTCAGACCG GATTTTTTGT CTCTGAATCT GTACCTTCTC
162361 CTGGAGTCAA GAAAGTATGG TCAAAAGGTG GAAGTAAACC AAATGTCCAT CTATGGATGA
162421 ATGGATAAAC AAGAATGAAA GTCTGACACA CGCTACTACA TGACAAGCCT TGAAGACATT
162481 CAAGCAAAT AAGCCAGAAA CAAAAGGGCA AATATTGTAA GACTTTGCTT ATACAAGGCA
162541 TCTGGAGTAG TTAAGTTCAT AGAGACAGAA AGTAAAATAG TGGTTACAAG GTGTTGGCAA
162601 GACCAGAAAA TGGACAGTTA TTGTTTAATG GGTAGTGAGT TTCAGTTTAG AAGATTGAAG
162661 ATGAAACTGA GTTGCACTTT GGAGATGGGA ATGGTGATGG TTGCACAACA ATGTAACAAT
162721 GTAAAAGCAC TTAATTCTAC TGAATATAT ACTTAAAAGT GGTTAAATGC TTAAGTGTTA
162781 TATATATTTT CACACAAACA CACACACACA CACAATCAGC CACTGGGACA TTATTTTCTC
162841 ATGAGTCACT GAAGCTGGAA GAATGTCCCC AGTTTCTTGC TGCAGAGTCA TGTGTGGGAG
162901 GCAGGCACTC AGATGTGGAA GAGGTGCGCT CAGATTCCTT ATAGTCACCC AATTAATTTT
162961 CTTGTTCTTC AGCCAAGACA CAGGAGAAAG CTGGGTTAGG AGTGCTAGAT AATTTAATTG
163021 TGAAACTAGG GCCAAGTCA AACACTTTAT CAGTTACAAG GATAAAAGA GGTTTTTACT
163081 TATGATTTAA GAAGTTAGAT TTCTGAGTTG GAGCGATTTT CTTGAAGTAA AAGCTTATAA
163141 TGAACATCAC CCAGACTGGA TTTTAAGACA ACCAGGCTGG TAAGAGGGTC CATAATCTT
163201 GGCAGGGGGA GCTTTGAGTG TGACAGGCAT TTATTATGGT TAAGTGAAG AAAGTGAAG
163261 ACTACCCTAG GGTCATCTTA AGCATTCTTA TGTGTAAGAC TGACAGAAAT CAAGTGAAG
163321 TCTCATCTGA GGAGATGTAA AGTTGCAATT TCCATTAGTG CTGTCTAAAT TAATGCAGTG
163381 GGAGTGTGTA TTCAGGGCAA TTTGAATCTA TGTTCTTGGG TTGCAGTCTT CAACTTGGC
163441 CCAAATAAAC TCTCTACTTA TCTTAAAAA ATAAAAATTA AAAAATAAAA ATAAATTCAT
163501 ACAGTGTTTT GATGACTATG ATATAGAAGA AGGGTCTTTG ACTTAGGATG AGGTGGAATT
163561 TTTGTGTAGG AGACAGGTGC AGCTTTAACT CTTGTATAGA CGGGTTTTCA TATATGTTAG
163621 TTACAATCAA GGTCTTCCCC ATTGCCCAAG ATCCTAGAAA TGGGGGAAGT AAGAGTGTAT
163681 TCAGGAGCTC AAGAGCAACA TCCACAAACA AAGATCAGGG TAGAGGTTAG AGAGGACTCC
163741 TGAAAGAGAG AAAATTGGTA ATCAGCTTGT GGGATTTTAC TGCAAGCTAG TGAATTATAT
163801 AAATATAAAG ATTGGTGCAA AAGTAATTGT GGTTTTTGCC TTTACTTTAA TGGCAAAGAC
163861 CGCAATTACT TTTGCACAAA CCTAAATATT TCCATAAAG AATGTGGCTC TGATAATGTG
163921 GAGGTTAGTC AGCCACGGAA ATAATCTGAA AGTTTGTAGT TGCAAGTGTG TAGGTTGTTG
163981 CATTACTTGT GATGTACTTA TAAATCAAGT ATAGGCCGGG TGCAAGTGTG CACGCTGTGTA
164041 ATCCCAGCAC TTTGGGAGGC TGAGGTGGGT GAATCACGAG GTCAGGAGAT CAAGACCATC
164101 CTGGCCAACA TGGTGAAACC CCGTCTCTAC TAAAATACAA AAAATTAGCC AGGCATGGTA
164161 GCACATGCCT GTAATCCCAG CTACTCAAGA GGCTGAGGCA GGGGAATTGC TTGAACCCGG
164221 GAGGTGGACA TTGCAGTGAG CTGAGATCGC ACCACTACAC TCCAGCAAGA CTCCATCTCA
164281 AAAAATAGTA ATAATTTAAA AATAAATAAA TAAATAAAGT ATATTTCTTT CATCAGCTTC
164341 ATGAGCTAGA GTAGTATGAA TTTCAATCTG GAGTGATCCT GTTTTCTAAG TGTTCAAAA
164401 GCTTGGTTTC TGTACCTGTA AAGTTGAGAG CCAGATGCTC CACTGTGGTA AAAGTGCCAG
164461 GGTAATGAGT TGAGGCCTGC AAACCAGGTT TATTTTGACG TATTTAAAGT TTGAGACCCA
164521 CTCGATGCTT TTTCTAGGTA AATAGTCATA CTAATCTGCT TTCTTCTGAC TGAAGTATCA
164581 GGAATCCCAG CCAACTACAG TTTAAAGATG GAAAGATTGG TGCTAAATAC TCATGGATGT
164641 AAACCTGGAA CCAGGGGCAT AAGTACAAAT AATGGTTTCT TCCTTGGGTT TCATTTTTC
164701 AATCTGGTTT AGTGAGAATA AATCCTCATT GTGCTTTTCC TCAATCATCC CCTATGCCTA
164761 AGCTCTAGAA TGGAAAATAG CTTGAGATCA ATGAAGTCAG ATTCTTACTT TCCATTTAGT
164821 TATTCGCATT GCTGTGGACA GCTTCTGCTC CGTACATCTG TCTTCAAGTT GCTTCAGTTT
164881 TGTACACAGT TTCTGGAGCT TTTCTGAAAG GAAAAATTG ATAAGTGAAG CCTATTCAAT
164941 TTGACTCTTC ATTAGGGACC TAGGGGGAAT CCCAATCTC TAAGATATAT TTGAATAATA
165001 GTGAATATTT ATAGAGTCCT CATTGTTTTT TGCTAGAGAG CATGCTAAAG GCTATATGTG
165061 CAGGAACATA CTGATCCCCT TGGCAACCTT GAATAGTTGG TAGGATTTTA AACTTCATTT
165121 CTGTGCTGTA GAAAATGAGA CTAAGAAAGG GGTAAATAA CTTGCCCCAA GGGCTATGAC
165181 TGCCAGGTGG TGGAGCAACA ATTGCAATCT CATCTGCTGA CCCAGAGCCT GAGCTATGTC

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165241 CACCACTAGA GTCCTGCCAG GAAAAAGTTG GATATAGAAC AAGGTAATCA TCATCTAAAA
165301 GATTTTGTAA AACACATGC TGAACCAAGC AAAACCAATA CCAGTGTTTG GCACACATGA
165361 AATTTTGTGT CTTATGAGTC AGGAAAAATC AGGATGCCAG CTGGTTATTA GAAACAGTTC
165421 ATGGAAGAGG GGAATTCTGG TATCTTTTGA ACAATGGTAT CATGAATCCA ATTTAAAAATG
165481 ATTTAGTATT CATGTCAAGC TTTTAGCTTA TTCTTCAAAA CAGTTTCTCA TATTTCTATT
165541 GAAAGTGATT TGAAGCTGAC CCAAATTGCT AATTGTAGTC AATGCTGAAA GAATTGTCTC
165601 CTGTCTCTG TAAACCCAAC AAGTATACTC ATTCATTCTC GAGTGTTCTC AGGAAAAGGT
165661 TCTATGTAAC TGTTTTAGCA AAAGATGACA TTGTCCTTAC TATATGCCAA GTGCTATTCT
165721 ATGCATTCTA TATTTAATG TCCTCAAAGC TTATAACCAC CTCCTGTGTA TGTGTTTTAG
165781 GGAGGGAGGA CACTGCTATT ATCCCCATTT ACAGATGGAG AAACCAAGGT GTGAAGACAT
165841 TAAGTAACGT GCCCAAAATT GCCCATCTAG TAAGTGACAA AACTCAATTT CAACATAAGC
165901 TGGTTCCTTT TCTTACTACT TGGTGAAAAA GTAATTCAAA TGGGAATATG ATCATCGCAG
165961 TTATTAGCTG CTCCATGGAG TTTAAGGAAG AGCTGCCATG AGCTGAGTGG TGGTCATGAT
166021 TGACATGTCC TTAGAAGGAC TTAGAGCCTT CATACAAGAC CACCTCTGCC TCATGGAGGA
166081 CAGAATAAGG AGCCTGACAC TGGAGACAAC ATTTTCCTCA AATTTAGGCA GGACAGAGAA
166141 GGAAAAAGGA CATCAGGACT ATGCCCATTC CTCCATGCTG CCAACAGCAA AGTCCCACCT
166201 TCCTTAATAT GCTTTCTGGC AAGAAATCTG GATGGTACAC AAAACCTCTC CCTCTGCTTC
166261 ACCTTCCACA ACCAAGCATT TCCAAATCTT TGACTCTTCT TCCTGAATCG TGCTTAAAT
166321 CTGCCCTCTC CTCCCTTTCT TATACGGATA GTTTGAATTT TACTCCTTGA TATTCCTTTT
166381 ATCATAGACA TGCCACAGTA GCTGGGCACA GTGGTTCATG CCTCTAATCC CAGCATTTTG
166441 GGAGGCTGAG ATGGGAGGGA GACCAGGGGT TTGAGGCCAG TATAAGCAAG AAAGGCAGAC
166501 CATGTCTCTA CAAAAAATAA AAAAATTATC CAGGTATGGT GGGGCATCCC TGTAGTCCTA
166561 GCTACTTGGG AGGCTGAGGT GGGAGGATTG CTTGAGCCCC AGAAGGTTGA GGCTGCAGTG
166621 AGCCGAGATT GCACCATTGT ACTCCAACCT GGGATACAGA GCAAGACCCCT ACCTCAGGAA
166681 AAAAAAAAAA AAAAAAAAAA AAAAGTAGAG GTACCAGAGT GATATTTTCA ATGTCACTGA
166741 CCCTTCATTC CCCAAATGAA AATCCCCCAA TAGGTGTTCA ATTTTACGT GTCCTTCAGG
166801 AGTTACTTCT AAGATGAACC ACTCTTACC CTAAATGTCC CTCCCCACCA CCAAACCAG
166861 GGACCTCCAG GCAGACATT TTAGTGTTT GTTTCTTTA CTAGACTGTA GATACCTAAA
166921 AGGTGATGGG TCTTTCTTCC CTGTTTTTCA GCCCTACTGC ATGGCTTTAC ATATTGTGGT
166981 TTTTCAAATG ATATTCAATG TGTGAAACAA GAAAAAATGC GGGTGTGTTGG TTTGAGAACA
167041 ACCTGTTCTA AAGCAAAAAG AAATTCATCA TAACACAAAT GGATAGAGAT AAGAGTCCAA
167101 CCATCCCATT GAAGGTCAGG ATGGACAGTC TAGATAATTG AGCAAGAAAT CATCATAAAC
167161 TATTTTTCAG AAGAATGACA TGATGAAAGC TGTATTTCCA AGTCATAATG TTAGGTTTCA
167221 AGTTAAATCA TCTCAGCTCC TGGGGAGCAG GATAAGACTT GGTACTTACC AAAGCTCCCCG
167281 GGCCACACA CTACCTTGT AGCCCTGGCA TACGTCTTCA ACAAGAGCTG TGGTGTGCCC
167341 TTTGTGCTGT GGTGCCCCGT CACAGCGCCA GCAGATGAGC TGCCCCCTCGT CTTGAGGGC
167401 CAGGTGGAAC TGCTCTCCGT GTTCTCACA TGACATTTCT TGATCCGTCT CTTGAGGGC
167461 TTCAATGAGG CTTCACAGCT GCTTGTGTTGG TCGGAGGCTA TCCATATGAA ATGGAGCCCCG
167521 AACTGGGGA CAGCAGAATG TCTCTGCCT CAGTTGCTTT TGGCTTGGGT TTTTAAAGAA
167581 GTCTGTTATA CACAAGTGGC AGTAGCTGTG TCCACAGTTG ATGCTTACTG GGTTCGTCAT
167641 CAGGCTCAGG CAGATGGAGC AGGTGGCTTC CTCCATCATC TTCTTGGTGC TGGTGGTTGA
167701 GGCCATAGCT TTTATTGAAA AGCTCCAATA TTGGCTCTAG AGATGGAGAT GAAGCAGCCA
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167821 AACTGACTTC CATAGGTCTT GAAGGTTTTT CTTCCAACCC CTATTATCTC ATTTTGTATT
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168241 TCAGACTGCT CTAAATTATT TCATTATTTT TCTTTTCTCA GTCTTCTAAC TTTTTTTTTT
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168361 GGCTCACTGC ACCTCCGCT CCGGGTTCA AGCGATTCTC CTGCCTCAGC CTCCCGAGTA
168421 GTAGCTGGGT CTACAGGTGT GCACCACTAC GCCCAGCTAA TTTTGTATT TTTAGTAGAG

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168481 ATGGGGTTTC ACCATGTTGG TTGGCTCGAT CTCTTGACCT TGTGATCCAC CCGCCTCAGC
168541 CTCCCAAAGT GCCAGGATTA CAGGCATGAG CCACCGTGCC CAGCCTCTTT TTCTTTTCTT
168601 ATAAGACAAG TTCTCGCTCT CTTGCCCAGG CTGTAGTGGA GGGCAGTGGC ATGACCACAG
168661 CTCCTGTCAG CCTCGACCTC CTGGGTTTAA GCAATCCTCC TGCCTCACCC TGGCAGAGTG
168721 GCTGGGACTA CAGGTATGTG CCACCATGTC CAGCTAAAGT CTTCTCTCCA GAAAGAAGAA
168781 ATGCATTGGA ATTTAGAGGA TACACAAACA TCTAGCTGTA TAGCTAATAC AGTAGCCACT
168841 ATCATGAGTA GGAATTTAAA TTAACTTAA TAAAAATTAA AATGAAAAAA TTCAGTTTTT
168901 CTGTTCCAGT TGCCACATTT TGATTGCTTA ATAGTTGCAT GTGACTAGTG GCTACATAAC
168961 AGCCTCAATA TACAACATTC TGTTATCACA GAAAGTTACC TTGGACCAAG TGCTGGGAGA
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169141 GTAATCCTAG CACTTTGGGA AGCCGAGGCG GGCAGATCAC CTGAGGTCAG GAGTTTGAGA
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169321 GCTCCGGAGG GGGAGGTTGC AGTGAGCCCA GATTACACCA CTGCACTCCA GCCTGGGTGA
169381 AAGAGCGAGA ATCTGTCTTA AAAAAAATAA AAAGAATAAT TGGTACCAGA ATTACTCTTT
169441 GTAATTAGTA GTAACACTTA TGCAATTGGG TGATCTGTGA CAGATTCCAT TGAAGGAGTA
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169621 CTAGACAAGA AGAACAATTG TTTTCTCTTC CAACCCCTAT TATCTCATTT TGTACTGAAG
169681 AAAAGAGGAC TAAGAATGTA ACCAGACCTA ATCAGACACT TTCACAAAAT AATGTCGTGC
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169801 CATTCACTCT CCCAAATATT CATTTATTCT CCCTAGTAAT CATTACTGC CCCTCAAAGA
169861 ATTACCTATA TTCTCCTGAT ATCACCCTTC CCCTCTGAAA TAAATATGTA TACATGTATA
169921 AACGTTATAC ATACATATTT ATACAGTATA CATAATATT TATACATACA TACATATGCA
169981 TACATATTTA TATTTATGTA TTTATACATA AGTATTTATA AATAAGGCTA TATAAGTATC
170041 TACCCCAATT GGCAGAGGGG GTAATCACTC TGTGATTCTA GCCCATGTAC TTGTTAATAA
170101 ATTTGTATGC CTTTTCTCCA ATTAGCCTGC CTTTTGTGAG TCGATTTTTC AGTACTGAAG
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170221 CCACCTCGAC CCCCCCATC CCCCACAAAG AACAACAACC AACACTGGTT AATAAGGTCG
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170401 TGGGACTTCC CTGGCTAATA ACGTCTTGCT AGAGACCCAA CCAGGAGGAT AATGGAAGCA
170461 ATCAAGGCAA CCAGAACAAC CAGAAGAACC GGTATATCCT TTTTGTGCCC TCTCCCTAAA
170521 CTGAGGGGAA AAGAATTGGA AAGAAGGCTG CAGAGCAGAG GGTGTGCTCC TGAGGAGCAG
170581 TTATTTCTAT GGGATCAGAG CTCCTGCAGA ACTGGGGAGT TTACTTTTAC TATCTCTTCT
170641 CCAGGACAGG ACCTATCTCA AGAGACATGT TCAGAGTGAT TGCAACATAA AGAGTTTGCA
170701 GACCCAAAGG GGTAGGGAAG GCAGAAAGAA GATGGGGGAG GCCAGGGATA GGCAACAGAG
170761 GAGTGACCAG GAGCGAAAAA GCCTGCCTCT TCTGAGAACC TAGCTGGGCT CTCCCTGTAC
170821 CCCCAGTCCC TCCCCCCCCG CCGCCCCCAC ACCCCTACTC CTGGGAGCTC CTCTAGGACA
170881 GGGGCAGAGT CAGGAGGAAG TTTGAAGAGT GCCTAGAATA AAAAACAGTA ATTTAACTAC
170941 AATTACCGGG TAGGCTGTTT TCCTCTCACA ATTTGATCAG TCTCTTGAAG CCACACAGAA
171001 TTTCTTCTGA AGACGTGTAT TCCTTGGCAG GCTATTTCTT CCAGTGATAC ACCAGGCCCT
171061 TCTCTGCTGG GGTCACTGCT CTTCTGGGGA GATGGGGCTC CCCTCCTTCC AAGGCTCCAG
171121 GGTTCCTGTC CTGGGCCCCA CTCATCTAAG TTCTGAATCT TCTGAGATTT GGTGTAAAGT
171181 CTGGTGAAAG AAAGAGCAGG AAAGAGGTGA GAGCTGTAAA ACAAAGAAAG TCCTGACCAT
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171361 CTCAGACACT TACATATTCG CTGCTAGTCC CCTCTGTTGC TGCCACTTCC TGGGTCAGGA
171421 AGTTAACTCA GACCGGATTA AACTGAGAAG TGAAACTACT GTGGGAGGCG GGGCTCATAA
171481 GATTTAGGAG AAAACTAGTG ACGTTGTTCA TATCATTTGC ACTCCGCCTC TCCGGTAAAG
171541 GAGGGGGAAA CGTAGGAAGA AAATATCCTT CTTTACAGC AATAAAAAGA AGGAACCAAT
171601 TAATAACCTT GTAACTATC ATGTGACCCC AACACAGAGT ATCTAAAAAC AGGAAGCCTG
171661 CAGAGGTTCA GTTCACAGAC TCTGATTGTA GATCTTTCTA CTTTGGCCAC CAACTCCCTT

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171721 GGGAGTCCTT AAGCCTTCCT AGCTGATGTT ACTTCTTTTG CTATTTATGG GTTGCTTGTTG
 171781 GTTCTATAAC TGCTCTGAAG GGTGTGGTGG AAAAAGGGGT GGTAACAGCA GTAGGACTCA
 171841 TTGGCATCAC AAAATTTCATC TGAGTCAGCT TTCTATTCTT CTCTGTCCCG TTCTGTGTCT
 171901 TGTTTTTCTC CTTGCTGTCC TTCTGCAGGA CTCAGATCTT CTTCAATAGC GAGGGTCAGC
 171961 CAGGATAGAA AATGGGAGTC ACTAGTGGCC CAGCAGTGAG TGCCCCCAGC TTAGAGCTGT
 172021 GTGGGATCCC TGGGACCATC ACTCTGCTTT GTGCTTTGTG GAGAAAAGGC TGTGGGGTCC
 172081 AGGGTCAAGT CCTTAATGAC TTAGTCCAG CTTCTCCACT TCAAAATGAA AGGAAAAGTA
 172141 CTATCACCAC CCGTTAGAA TATTATTTCA TGGGGAAAAA AGATGGATTA CTATCTCACA
 172201 ATAAGAGCTT GTCACATTTA TAAGTCTCAG GTGTAAGAGG CATTATATGAT AACAAACATAA
 172261 TAAATGCTGG CTTAAGTAGA TGCAGTGGTC CAAGGGAACC AGTAAGGGGA GCTCAGGACA
 172321 CAGGTGGGAG GAGAAATTAA ACTTGAATTC TGGGAGCCAC TGGCCTGTCT GGGCCCCCTGG
 172381 CCTGCCCTGCT GACCCTGATA GCCAATGGAA CATGGAGTTT GGCCCAGCTG CAATCCCTCT
 172441 GGTCCAACCTA CTCAAATAA AGGCAAGATT GGGAAACACG TTCCTTTCTT CCTATACCAA
 172501 GCAGAAGACT CTTCAGCACT GCACCCCTCT GGGTGTCTAC AGAGCCTTCT GTTGTTTTGC
 172561 CACCTACGAT TCATCATGCC CTGGCATGAT GGTTCAGAC CCCATGCATA GCATGGGACA
 172621 TTCTACTCCT GAGGCAACCA GCACACAGAG AGAGGAGAAA GAATGAGCCC CTGAATCCTT
 172681 GGTCCCACGA TGAGTCCTTG CAGATATCTA CAACTTTCAT TGTGTGGAT GTGACTCTGT
 172741 ACCCAGGCAT GGCTCATTCC AGATCTGTCC TATTGTCTGAG GGTGTTCAAA CCAGAATGAC
 172801 TCCATTTTGA ATGGGGGCTA GGTAAAATAA GGCTGAGACC TACTGGGCTG CATTCCCAGG
 172861 AAGTTAGGCA TTGTAAGTCA CAGGATGAAA TAGGCAGTTG GCACAAGACA CAGGTCAATAA
 172921 AGATCTTGCT GATAAAACAG GTTGACAGTAA AGAAGCTGAC CAAAACCCAC CAAAATCAAG
 172981 ATGGCAACAA GAGTGGCCTC TAGTCATTCT CATTGCTCAT TATACACGAA TTATAATGTG
 173041 TTAGCAAGTT AGAAGGCATT CCCACCAGCT CCATAGTGGT TTATAAATAC CATGGCGATG
 173101 TCAGGAAGCT ACCCTATATA GTCTAAAAG GGGAGGAACG CTTGGTTCTG GGAATTGCCC
 173161 ACATCTTTCC CAGAAAACAT ATGAATAAT CACTCCTTGT TTAGTACATA ATCAAGAAAT
 173221 AACTGTAAGT ATCTGTATTA GTCCATTTTC ACCTGCTGA TCCAGACATA CCTGAGACTG
 173281 AGTAATTTAT ACCAGGAAAA AATGTTTCAT GCTCTTACAG TCCCACGTGT CTGGGGAGAC
 173341 CTCACAACCA CAGCAGAGG CAAGGAGGAG CAAGTCAGGT CTTACATGGA TGGCAGCAGG
 173411 CAAAGAGCTT GTGCAGGGAA ATTCTTTTCT ATAAAACCAT CAGGTCTCAT GAAACTTATT
 173461 GACTATCATG AGAACAGCAG TATAAATTAC TCAGGGAAAG ACCTGCCCCC ATGATTCAAT
 173521 TACCTCCAC CAGGTCCCTC CCACAATATG TGGGAATTTA AGATGAGAGT TAGGTGGGGA
 173581 CACAGCCAAA CCATATCAGT ATCCTTAGTC CAGAAGCTGA TGCTCTGCCT GTAGAGTAGC
 173641 CGTTCTTTTA TTCCTTTACT TTCTTGCTTT CACTTTACTG TGTAGACTTG CCCCCAATTC
 173701 TTTCTCACAC GAGATCTAAG AACCTTCTCT TAGGGTCTGG GTTGGGACCC CCTTTCTGGT
 173761 AACACTATCA AAGGATCAGG AAAAGGAAGC TAGTGAATGC TAAAAAGGAA ACAACTACC
 173821 ATTACCAATA ATAACAGCAA GACAAAAGCA AAACGGATTG TGACAGCTGT CCCATCTCAC
 173881 ACCTGTTTCC CATTGCAGGA AGGAGGGGCT GGTTCATGCA CAGAGTGGCC AATATTAGAA
 173941 GCAGAGATGG GGTGCAGATG AGACTTCAGG AATATGTTGA CAAAGGCAGG CCTAGGGAGA
 174001 AATCAACCTG AACTATCCCC AAGGAGGAAT GCATTATCTC TAATATGTAA AGTTAGGCTT
 174061 GATCCTGTGA TTATGGGATA TAGGAGTCCA AAGACTCACA ATGGGAAGTA GGTCACTAGA
 174121 GTCTCCTTCA GAAGCTCTGT ACTGTGTGTT CCCACTGTGG GCAAGAGTCA GCACTCAGCT
 174181 ATTCTAGAA TGCTTTTCTT CAACTCTTCT AGATTTTGCC TCTCAACTAA CCCTATCCTG
 174241 ACCACTTGTT AGCAAGTGTA CCCCTCTCTC CCTCCCAAAC ATTTTCAAAT CTATTTTGTT
 174301 CCCATGGCAC TTATCACTGA ATATTTTACT AATTTATTTT GTTTAGTGTT TGCTTCCCTC
 174361 ATGAGAATGC AAAGGGATGG ATTTTTTTCA ATATTGTTCA CTGATGAATC CCAGTAACATA
 174421 GAATATTTCT AAGCATAGTG ATGTGCATTA AATCAAAGAG TAACTTTCTG AATTGCACTA
 174481 AACACACATC ACAAGAGGTG TGTGCACATA TGTGCATGAT GCACGTAGTG TGGTGTGGGT
 174541 GTTGTGTGGG GTATGTGGTA CTGTGTGTGC TGTGTGTGGT ATGTGATACA TAGTTTGTGT
 174601 TAGTGTGATG CATGTGATGT GGTATGTGTG TGGCTGTCCA TACATATTAG GGGTGGCGGG
 174661 GATGTTAATA TGTCAAATGG TACTAGAAAG TATCAGAACT CATGGTGTCT ACTG6TTTCC
 174721 CAGAGAGCTG CTTCTCTCCC ACCTGTAGGA TATACTGATG GTTTGGACAG AGAAGAAATA
 174781 AAAAGAAGGC TGTGACCTAC TGGGCTGAGG AAATAAAAAA GAAAGTAAAA GAAGAGCTGG
 174841 GAAAAGAGAG TGGAGGGGCC AAGGGAAATT TCCCCTTTGG CTTCTGGGGA AACTTTGCTG
 174901 AAAATCAAC TCACAAATTT ATTAACATGT ACACAGGGAG AACCATAGAA TGATTATCCA

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174961 CTTCCCAAGA GGGCTTAAAA GCTTATATAT TATCCTGGCA AAACAGATTA TGGGAGGGGA
175021 AGAAGAGAAA CTCTGTTGAT GGGATTACTG TTGCGGATTT TTGCTCCTTC GCTCAGTAG
175081 GTCCGGGTTT TTGTCTCACA GCCAGGAAGA ATTAGGCATG CAGCCATCAA AGAATGAGTG
175141 GAGTAGAATT TATTAAGTGA AAGGAAAGCT CTCAGCAAAG ACAAGGGTCC TGAAAGCAGA
175201 TTTCTGGTTT GCTCTTCACA GTTGAATACT AGGGCTTAAG ACTCAAATTC CTGACAATC
175261 CACCCTGTCC TACCAGTGCA TGCAGGCCCT TAGACTGAGC TACTCCATAT TGATTAATTT
175321 CCTGAACGTG GCATGTGTTA AGGAAAGGAA TCATCCACTG CAGGCATGTT TAGGCAAGCC
175381 CCCTGTGCAA GTTCCCTTAT CTGCACAAA CATCCGGTGT AAGCACTTGT GGGGCAGGTC
175441 AGAGGTTCTC TGGGTACCAT TCCCTTACTG TCTGCCTAAA GCAAGCTGGC CAACTCCTTT
175501 CATTACTAGG GAGAGTAAGT AGATCAGGGA ACAGAGATTA ACTTGAACAT TATCTTGTGA
175561 AAGTCCGTTT GGGCATGGTT ACATTCTTGG TCTTACAGGA AGGGTAAATA AAAATAGTTG
175621 CTCTTTTGGG TGGGTCTGGA TCTTAGGTAG ATAAAGAAAC TTTAATTCCA CGATGTGTTT
175681 TGGTAGGGAT AGTTGGTGGC AGGGATGTCA GAGAGACTTT GAGGCTTCTT CAGTTCAATA
175741 TGACCAAGGG CCATATATTA GGGTATCAAT TTCTGAGCCC CAACAAGAGC TTAGGAGAGA
175801 TGTGATAGCA TCACAGTGTG AAAGCAATTT TTTGTTTGT TTTAGAGACA GGCTCTTGCA
175861 CTGTCACCCCT GGCTGAAGTA CAATGGTACG ATCAGAGCTC ACTGTAATCT TGAAGTGGGT
175921 TCAAATGATC CTCCCATCTA AGCATTTCOA AGTGTGGGGA TTACAGGCAT GAGCCACGGT
175981 ACCCAGCCTG AAAGTGCACC CACTTCTCTG TAACTTTTTC AAATGACTAA AGGGGAGAGA
176041 GTAAGCACTA CTCAGAGGTA GGAAGAAAGG ACACAGGATT ATAGGATTAA AACAACAACC
176101 ACCAAAAAAA ACCAGACCGG TGTGGTGGCT CACACCTGTA ATCAGAGGAT TTGGGGAGGC
176161 TGAGGTGGGG GGAGTCACTG GAGGCCAGGA GTTCGAGACG AGCCTGGCCA ACATAGCAAG
176221 ATGCTGTCTC TATTAATAAA AAAAATACC TGCCCTGAGC TAATCAGAAT CATGGACCCT
176281 GACAAAGGAT GTCCCAAAGT AAGTCTTAGC ATTTTTTTTT TTTTTTTGAG ACAGTCTCGC
176341 TGTGTTGCCC AGGCTGAAGT TCAGTGGCGT GATCTCGGCT CACTGCAACA GCTGCCTCCC
176401 AGGCTCAAGC AATTCTCCCT GCCTTCAGCC TCCCAAGTAG CTGGGATTAC AGATGCCAC
176461 CACCACGCTT GGCTAATTTT TGTTTTTTTT AATAGAGATG GGGTTTTGCC ATGTTAACCA
176521 GGCAGTCTT GAAGTCTCTG CCTCAAGTGA TCTGCCCACC TTGGCCCCCTC CATAGTGCTG
176581 GGATTACAGG CGTGAGTCAC TGACCCCGGC AAAGTCTTAG CATTCTTTAC AAACAGTTTG
176641 TACCCGTATC TCTAAAAGGG AGTAGTGAAT TTCACCCCAA AATGTGGCTT CCTGATATAA
176701 TGAGTATTTT GAATGAAAAA CTCTTAGAGA TCAACAGACA CTAAAGAGAC TTTTCCCTAG
176761 GTACATAAAA ATAGGATGGC CCCACCAGCG AGAACAATTG TTCTTTCTC CCTCTCTGTT
176821 ATCTCATTTG GCATTATAGG AAAGACCAAG AATGTAACCA CACCTGAACA GACCCTTTTA
176881 TAAGATAATC AGTCTCTAAG CATCATTTAA ATTCCAAGGA GAACTATTTA CAAATTTATC
176941 TGTCTTTTGA TCCAATTAGT CTCTCTGGT AGTTACATAT TGCCCCCTCA CAGAATTCCT
177001 CTCTCTCTGT TTCCCATAC CTATTTTGCA AGGATCAAGC CCCTGTTATT TCTTCAACTT
177061 CAAGGTGGCA TATAAGCTTC TAAATTCAC TGGGATATTG GTACTATGTG CATGAGGAGA
177121 ACCACAGAGT AATTAAATTG TAAAGCCTTT TATCTTATGA ATCTGCCTTT TTTTGTGTTT
177181 ATTTTTCAGC AAAACTTCCA AGGGCAAAGG TATAAAACAA AAATAAAATT CTAAAGCCCC
177241 CCAACCATCT GAATAGACTT TCTCTTCAGT CAGGCTTCTT AAAATGTAAC CTGAAAGACT
177301 GGCTCAGGCC ATTAAGGGAA GTGGGGGTG AACATGCCTC ATTATTCCTC TCTGGCATT
177361 ACATCAACAC AGCTTTTAAG TCTGATAAGA AACATTTTAC AACCTATTCT CTCTGAAGCC
177421 TGCTAGCTAA AAAGTTCATC CCATAGTACA ACTTTGGTCT TCACAACCTG TTATCACAAC
177481 CTAGTGCTCC TTTCTATTAA TCCCAATCT TTATACAAAC TCAACCAATT GTCATCACCT
177541 CCACCCCACT CCTCCGCTGC TTCCAGTTGT CCCGCTCTC TGGACCAAC CAGTGTACAT
177601 TTCTTAAACG TATTGATTG ATGTCCCATG CCTCCCTAAA ATGTATAAAG CCAAGGTGCA
177661 TCCCAACCAC CTGAGCGCT TGTCTCAGG ACCTCTGAG GGCTGTGTCA TGGGCCATGG
177721 TCACTCAAAT TTGGCTCAGA ATAAATCTCT TCAAATGTTT TACAGAGTTT GGCTCTTGTC
177781 ATGACACAGA TGAAGCTTC ACTGAAGCCT GCTCTGGAAG TGAGTGGGGG TTTTGAAGG
177841 ATAATTTTCC CCGGATAGCC CCAGAAGCAG CTAGTAATAA TACACTTAAA GGTAGCTAAA
177901 ATGCATTGAA CACTTGTTTT GTGCCAGACC TATGTCAACA TTTGCTTTGT GCCAGGCTTA
177961 TGCCAGTACT CCTGATTTGT TAATACATTC TAAATAAAAA TTCTGGAGTT TCAAATATAA
178021 TAACTGAAAA ACAGAAAATA AATAAAATA TATAATAACT GAAATAAAAA TTTACTAAGG
178081 CTGGGGATGG TGGCTCACTC ACACCTGTAA TCCTGTTACC GGAAAGGGGT CCGTCCAGAT
178141 CCAGACCCCA AGAGAGGGTT CTGGATCTC ACACAAGAAA GAATTCGGGC GAGTCTGTAA

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178201 AGTGAAAGCA AGTTTATTAA GAAAGTAGAG GAATAAAAGA ACGGCTACTC CATAGGCAGA
178261 GCAGCTCTGA GGGCTGCTGG TCGCTCATTT TTATGGTTAT TTCTTGATTA TGTGCTAAAC
178321 AAGGGGTGGA TAATTCATGC CTCCATTTTT TAGACCATAT AAAGTAACTT CCTGACGTTG
178381 CCATGGCATT CGTAAACTGT CGTGGCGCTG GTATGAGCAT AGCAGTGAGG ACGACCAGAG
178441 GTCACCTCTCA TCGCCATCTT GGATTTGGTG GGGAGCAGTG AGGATGACCA GAGGTCACTC
178501 TCATCGCCAT CTTGGATTTG GTGGGGTTTA GCCAGCTTCT TTACTTTTTT CTTTTTTTTT
178561 TTTGCCCAGG CTGGAGTGCA GTGGCAGCAT CTCAGCTCAC TGAAACCTCC AATTTCTGAG
178621 TTCAAGCGAT TCTCGTGCCT CAGCCTCCCA AGTAGCTGGG ATTACAGGCA TGTGCCACCA
178681 CACCCAGCTA ATTTTTTATA TTTTAAATAG AGACCGGGT TCGCCATGTT GCCTACGCTG
178741 ATCTCCAACCT CCTGCGCTCA AGCCATCCAG CCACCTTAGC CTCCCAAAGT GCTGGGCTTA
178801 TAGGTGTGAG CCACCCACC TGGCCTAGCC GGCTTCTTTA CTGCAACCTG TTTTATCAGC
178861 AAGGTCTTTA TGACCTGTAT TTTGTGCCCA CTGCCTGCCT CATCCTGTGG CTTACAATGC
178921 CTAACTTACA GGGAAATGCAG CCCAGCAGGA CTCAGCCTTA TTTCACCCAG CTCCTATTCA
178981 AGATGGAGTC TTTCTTGTTT AAATACCTCT GACAAGCCCA ACACTTTGGG AGGATGACAC
179041 AGGAGGATTG CTTTAGCCTA GGAGCTCAAG ACCAGCCTGG GCAACACAGT GAGACCCCAT
179101 CTCTAAAAAA AAAAATACAA AAAAATTAGC CAGGCATGAT GGTGTGTGCC TGTAGTCCCT
179161 GCTACTCAGG AGGCTGAAGT GGAAGATGG CTTCAGCCCA GGAATTCAG GCTGCATTGT
179221 CAGAGGCATT TGAACCAGAA TGACTCTATG TTGAATAGGC GCTGGATAAA ATAAGGCTGA
179281 CACCTGCTAG GCTGCATTTT CAGTATGTTA GGCATTCTTA GTCACAGGAT GAGATAGGAA
179341 GTCAGCACAA GGTACACATC ACAAAGACCT TGCTGATAAA ATAGGTTGTG GTAAAGAAGT
179401 TGGCCAAAAC CCATCAAAAC CAACATGGCC ACCAAAGGGA CCTCTGGTTG TCTTCACTGC
179461 TCATTATATG TTAATTATAA TGTATTAACA TGCTAAAAGA CACTCCTACC AGCATCATGA
179521 CAGCTTACAA ATACTGCGGC AATATCTGGA CTTTACCTTA TATGGTCTAA AAGGTGGAGG
179581 AACCCTCAAT TTTGGGAATT GTCCACCCCT TTTTGGGAAT GCTCATGAAT AATCCACCCC
179641 TTGTTTAGCA CATAATCCAG AAATAACTAT AAGTATGCTT ATTTGAGCAG ACCACGCTGC
179701 TGTCTGCCT ACAGAGTAGC CATCTTTTAT TTTCTTACT TTCTTAATAA ACCTGCTTTC
179761 ACTTTACTGT ATGGACTTGC CTTAAATTCT TTCTTGTTG AGATCCAAGA ACCCTCTCTT
179821 GGGGTCTGGA TCAAGACCCC TTTCTGGTAA CATCTTCTG GTGACCAGA AGGGACAATA
179881 CTGAGGAGAC TCTGAAGCCA AAGGAACAG ACTACAGCAC CAACTGGCTG ACTTTGGGTA
179941 AGTGGTGGAG TCCCCGGGTA AAGGATAGGA TTGGGTTAGA GGTGCAACTT AGGGGAGATA
180001 GGGTCTCTCC TAAGACAGAG AGGGTTTCAG TCCGCTCTTA ATAAAGGGCA AGAATGCTTG
180061 ACCGAACTTG GGTGAGAC CCAACTTAGG AAGGCTACAG TCCTTAAGAT TTAAGGGGTT
180121 AGAGGCCCTT CTCAGTAAAG TCTCTCTTGG TTAATAACGG ATTTAGCATT AGGGGATGTT
180181 AACTGCTATT CTGTTGTAT TAATCTTCCC TGTGCTCTT GCTGACAGCT ATGGGTGACA
180241 GGATTAGGCA TGTACAGGAT CACGGACAT TGGGAACCTT TCTTCTCTCC AAAAGGGGAA
180301 GCTTGACAGC TGATAGGACT GTTGGAAGAAG ATCCCTTGC TATGACAAGC AGCCGCCTGA
180361 ACTTTTGATT CAGTGTGCT GCAATGGGTG GGTCTTCTC TGGCCTCTGT GAACCTCTCA
180421 CCTTCCCAT CTCACCACAG GCAATGCTTT TCTCCCTTTC TCTCTTTCT CTTTTCTGTC
180481 TTTCTGTGA CTTGAGACAA CCATCTTGCC CAGAGACCAT ATGTTGAAAC TCCTGGTCAG
180541 AAGTTTGATT AAAGATGAAA GGGCTATCT GGGGGCAAGT TTGAGCCTTC CCAGTTAGAT
180601 ATTGGGTGCT AAGTGGAGTG GCCAATGTCT ATGTTTGTG ACATGTATAT TGCTCTGGCT
180661 GAAATGGAAG ACGTTAATTT GGTACTTTTA TGTGGCCATT GGGCAGCATC TTACAAAAGT
180721 GAGAGACATT TATTTGCCTG TGGTTCCATG AAACAGAAAA AAGTTGGTTT TCTTTGTGT
180781 CGTAGCTTGG ACCCAAGGGC TTTGCAGTGA GCAAGGTGCT TAGTGCTGCT CAGTGAAAGA
180841 GAACCCAGAA ACCTGGCATG CCAGCAAAAG GGTAAAGATT TCTTACCAG CAGGCTCTGT
180901 GCCTCTCTCT CTTAGTGAAA ACTGAATGAA TGGTAAAAAT CACTGTTTAT CACCTCTGTA
180961 AAGTTTTGAT TAATGGGAAC AAGGATTTGT GGGGCTAGTC TTAAGCTGTA ATGAATCTGG
181021 TATACTTTGT GATATCAATT TGTCTTCTG TATTACTCTG TCATAAAGAG GAATATGGTA
181081 GGATAGAACA TGGGCTCAGG ACTCCATAAG CCTGCTGTTT AAGCCAGCCC AGTAACTGG
181141 TCCGTTGCAA AGTTTATTAC AGGTCCCTGG AAAAAAAAAA AAATAAAAC TGGATGAAGT
181201 TTCCTTCTCA TCTTGTTTTA TGTCCTTTGG AGCTTCACCT TGTAACCACG TGGCGGTACT
181261 TTCTCTTGGT CTCTGCCATC CAGGGAACAG GAATTTTGGG GTTTATGTAA TAGTTAACTC
181321 TAAAAATTAT CTCAAGCCAT TGCAAGCTCA AAATTGGCTG CTCTGGACCC CTTCTGGGAA
181381 GGGCAATGGA AACTAACCAG TGTGTAGCT CAGCAGCTAA GGATTTGTCA TTTTATAATG

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181441 GCGGCCAAGG TTCAATCCTG GCTTAGGGAA TGAGTACTTT CTGATTGATA TCTGTGTGAC
181501 CTTTACCATT TGTTGATTCT GTTCTCTTCC CCTCCACACA CTGTCTTGAG TTTTCCTCTC
181561 TCTGAGAACC TGGGAGATTA TCTTTGGTAA AGTTCAAAAG CCAGAAATAA TGGCCGTGTG
181621 GGATGGCTAA AGTTGAGTAA TAAGAACTT AAAAGGACTC CTTTTTTTTT TGCTTTAGAG
181681 TGCTATGGTT TATGGTTAAA AGCTTAATTA AAAGTGGATA TTCAATCTCT AAAAGCCTGG
181741 GACTCCTTGG GAAAAGCAGA GGAGGCACCA CAGACCCCAT TTTGGGAAAA CCTCTGTTTT
181801 CCTCATGAAA CCCCAGGAAC TGGAAAGTGA TAGATCCTTC GCAAAATCTA AGGCTCTGTT
181861 TGGCTTTGCA TTATGTTATC TGATGTTTTT GACTTTTGGG GGTATCAGAA ATTACTTTGC
181921 ATTATGAGGG AGATCTGGTG TGAATAACC AGGTAGGAAA TATACTTCTG GGGATAGCTA
181981 AAGGCAAATA TAGGTGAATA CTTGGCTATT TGCACTTTTG GATCACAAGA AGCATTTCTCT
182041 TGACTACCTA GAAGGTATGG AAATGTCTCC ATCCCCACCG AGAGATAAGA TTCCCAGGGG
182101 AGATGGCTGA TCCCCAAAA GAGGGCTGAT TCCCTCTTTT GGGATCCAGG ATCTGGTATA
182161 AAAATGGGAC CCTGGCCAGG CACAGTGGCT CACGCCTGTA ATCTCAACAC TTTGGGAAGC
182221 CTCAGAGTTA TGAATGTCTC ACCATACTGA CACTTTGTGA CTGAGCTCCT CTCTACCCTG
182281 GACACAAGAG ACCCTAATAA TTAGACAGGA ATATCATTGC CCTATTTAG TCTGAAGAAG
182341 TTATAGAAGA CGGATCTTTA TCCCCTGCA ATCCTTAGGA TTAAGGGTTC CCTGGTAAAA
182401 GGGAGTGGGA AAATATGTCA GAGGCATTG AATCAGAGTG ACTCCATCTT GAATAGGGGGC
182461 TGGGTAAAT AAGGCTGAGG CCTGCTGGGT TAGGTTAGGC ATTCTAACCA GGAGTTTAGT
182521 CACAGGATGA GATAGAAGGT TGCACAAGGT ACCCGTCACA AAGACCTTGC TGATAAATA
182581 GGTAACGGTA AAGAAGCCAG CTAAAGCCCA CCAAACCAA CATGGCCACA AAAGTGCCT
182641 CTTGTCATCC TCACTGCTCA TATACACTAA TTATACTGCA TTAGCATGCT ACAAGACACT
182701 CCCACCACTG CCACGACAGT TTACAAATAC CATGACAACA TCTGGACGTT ACCTTATATG
182761 GTCTAAAACG GGGAAGAACC CTTAGTTCTG GGAATTGTCC ACCTCTTTCC TGAAAAATTC
182821 TTGAATAATC CATTAGTTTA GCACATAATC CAGAAATAAC TATACGCTCG CTTATTTGAG
182881 CAGTCCATAC TGCTGCTCTG CCTATGGAGT AGCCATTCTT TTCTTTTATT TTTATTTTTT
182941 AGATAAAGAC TCGCTCTGTC ACTCAGGCTG GAGTCTGGAG TGCAGTGACG TGTTTTGGCT
183001 CACTGCAACC TTCACCTCCC GGGTCAAGC AATTCTCCTG CCTCAGCCTC CCAACTAGCT
183061 GGGACCACAG GTGGGTGCCA CCATGCCTGG CTAATTTTTG TATTATTAGT AGAGATGGGG
183121 TTTCGCCATG TTGGCCAGGC TGGTCTCGAA CTCTGGCCT CAAGCGATCC ACTTGCCTTG
183181 GCCTCCCAA GTGCTAGGAT TACAGGCATT ACCCACTATG CATGACCCAT TCTTTTATTT
183241 CTTAACTTTT TTTTGTTTTT TTGAGACAGA GTCTCACTCT GTCACCCAGG CTAGAGGCTG
183301 GAGTGCAGTG GTGCGATCTT GGTTCAGTGC AACCTCTGCC TCCTGGGTTT AAGCGATTCT
183361 TCTGCCTCAG TCTCCTGAGG AGCTGGGACT ACAGACATGT GCCACTACAC CCAGCTAATT
183421 TTGTATTTTT AGTAGAGACA GTGCTTGCC ATGTTTGTCA GGCTTGTCTC GAACTCCTAA
183481 CCTCAAGTGG TCTGCCTGCC TCAGCTCCC AAAGTGCTGT GATTACAGGC ATAAATCACT
183541 GCGCTCGGCC CTTCTTTACT TTCTTAATAA ACTTGTTTTT ACTTTACTGT ATGGACTAGC
183601 CCCAAATTCC TTCTTGTGTG AGATCCAATA ACCCTTTTGT GTGTGAAAGA ATGTATTGCT
183661 GCTGTTCCAG CTGGAGCAAG CTGGAGCTCA TGCTGCTGCT CAGACTGGAG CATGCGTGAT
183721 CTGTGATCCC AGTAAGAGGA TCATGGTCAC TCCAGCCTGA ACGACAGCAT GATATCTCAT
183781 CTGTAAGAAA AAAAAATTAC TAGAGGGCTT TAACAGCAAA TTTGAGCAGC AAAAAAGAAGT
183841 AATCAGTGAA CTCAAAGATA GGTCAATTGA AATGATCTAC TCTGAAAAAC AGAAAGAAGA
183901 CAGAATGAAG AAAAAAGAAAT AGAGCCTTAG AGACAGGGGA TACCATCAAG CATACTAATA
183961 TATGCATAAT GGGACTCCTA GAAGGAGAAA AGTGAGAGGA CAGGGAGAGA GAATGTTTGG
184021 AGAAATAATT TCTCAAAGCT TCCCATGTTT GGCAAAAAAG CATTAACTTG CATACATATT
184081 TTAGGAGCTC AATGAATTCC AAGTAGGATA CACTCAAAGA GATCCATACC TAGACACATC
184141 ATAATCAGAT TATCAAAGA TGAAGAAGAT GAATCTTGAG AGCAGAAAGA AAGGAACAAAT
184201 TCATCACATA CAAATAGTAC TCAAAAGATG TCTGGAGTAG GTATACTAAT ATCAGACAAA
184261 ATAACTTTA AGATAAGCAT TGTTATAATA AATAAAGAAA GGTATTTTGT AATGATAAAA
184321 GTGTCAATTC ATCAAGAAAA CATAACATTA TAAACATACA TGCACCTAAC AACAGAGCCC
184381 TAATATTCAT GAAACAAAAC TGACAGAATT GAAGGGAGAA ATAGAAAATT CGACAATAAT
184441 AGTTGGAGAC ATCAATACCT CACTAGTTAG ACAAGATCAA CAAAAAATA GAAGACTTAA
184501 CACTTGAAAA CACCTAACCT GACCTAACA TAAATCTATA GGTCACTACA CCCCCAACA
184561 GCAGAATAAA CATCCTTCTG AAGCTCACAT GAAACATTTT TCAGGATAGA CTGTATATTA
184621 CTTTCATGAA TAAGTCTCAA TAAATGTAAA AGGACTATAA TAATAGAGTA TATATTCTCT

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184681 GACCAAAGTG GAATGAAGAT AGAAATCAAT AACTAGGCTG GCGGTGATGG CTCACGCGCTG
184741 TAATCCCAGC ACTTTGGGAG GCCAAGGCGG ACAGATCACG AGGTCCAGGAG TTTGAGACCA
184801 GCCTGACCAA CATGGTGAAA CCCTGTCTCT ACTAACAAAA TACAAAAATT AGCCAGGCCT
184861 GGTGGCATCT GCCTGTAGTC CCAGCTACTC GGGACACTGA GGCAGGAGAA TCACTTGAAC
184921 CCAGGAGGCA GAGATTGCAG TGAGCTGAGA TCGCGCCACT GCATTCCAGC CTGGGAGACA
184981 GAGCGAGACT CCGTCTCAAA ATTAAAAAA AAAAAGAAAC TAGAAAAATA AGAACAAATC
185041 AAACCCAAAG CAAGCAAGAG GAAATGAAA AATTTCAAAG CAGCCAAGAA CAAAAGGCAC
185101 ATTATGTACA GAAGAACAAG TGTATAGATC ACATATTTCT CATAGACACA ATATAAGCAA
185161 AAAGACAGTG GAGCAAAATT TTTTAGATTA ATGAAAGACC TACAATTCTG TACCAAGCAA
185221 AAAAACTCCC CCCAAATGAG GGTGAAATAA GACAATTTAA TACAGAGAAA AGAGGAAGGA
185281 ATTTATCTAG TCATATGTGA GAGTTTATG ATACATTTTG TACTGTATAT GTGGATGTTT
185341 TCTATTTTCAT TTAAAAAATC AACCGTGCAA TTAAATGGTA GATTGTCTTG CTTCTTTTGG
185401 ATTGACACAG TCATTAACATA AAATATTGTA GTATTTTTTT ATCTCCCTGC CTAAAGGCAA
185461 TAAACATCTA ATCAGCAGAC TAGAACAATA AAAAATATTT TTTAAAGTC CTTTAGGCAG
185521 AATGATAAAA GTCCCTTAGG CATATTGAAA TTCCTATTTA TACAAAGGAA TAAACAGTAC
185581 TAGAAATTGT AACTATGTGA GTAAACAGAT AATATTTTTT CTCCATAAAA TGTGGTTGAC
185641 TATTTTCACA AAAATAGTTA ACAATGTAAT GTGTGATTTA TAGCATTTAA AAGTAAAACA
185701 GGCCGGGCAC AAAGGTTTCG CCCTGTAATC CCAGCACTTT TGGAGGCCGA GCGGTGCAGA
185761 TCACTTGAGG ACAGGAGTTC AAGACCAGCC TGGCTAACAT GGCAAAACCC CATCTCTACT
185821 AAAAATACAA AAATTAACCA GCGGTGGTGG TGCACGCCTG TAATCCAGC TACTCTGAG
185881 GCTGAGGCAC AAGAATCACT TGAATCCAGG AGGTGGAAGT TGCAGTGAGG CAAAATTATA
185941 CCACTGTGCT CCAGCCTAGG CAACAGAGCT AGACTCTGTC ACACACACAC ACACACACAA
186001 AAGAAAAGTG TATGACAACA ACAGTGCAAA AGAAGTGGAA ATGAAAATAA TGTTATTTTA
186061 TATAAGTGGT ATACTTTTAG ATGAACTACG ATAAATTAAT GATGTATACT ATAACTCTA
186121 AGGCAACCAC TGAAATAATG AAACGAAGAA TTATGGCTAA CAAGCCACAA AAAGAAATAA
186181 AATAGAATGA GAAAAAATAT TTAAGTTGTT CAACAGATGG GAAAAAAAG AGGAAAAAGA
186241 GAACAAAGAA CAGATGGGAC AAATGGGAAA GTAATAGCAA GATGATAGAC TTAACCTAC
186301 CCATATAGAT TATCACACTT AAGGTAAATG ATCTAAATAC TCTAATACAA AAGCAGAGGT
186361 TGTCAGATTG AATTAAAAAA ACAGACAACA ACAAAAAAAA GCAAAAAAAG AGCCACAACA
186421 TGCTGCCTAC AAAAAATTCA CTTAATATA AAGACACAAA TAGTCTAGAA CACCATCACT
186481 TTTAACCTTA TTTACTCAAA CCTCCTGATC CCTATTTATT TATTTATTTA TTTATTTATT
186541 TATTTATTTA TTTATTTATT TTTGAGACAG AGTCTGACTC TGTTGCCAGC GCTGGAGTGC
186601 AGTGGCACCA TCTAGGCTCA CTGCAGCCTC TACCTCTCGG GTTCAAGCGA TTCTCCTGCC
186661 TCAGGCCTCC CAAGTAGCTG GGAATATAGG CACATGCCAC CATGCCAGC TAATTATTAT
186721 ATTTTITAGTA GAGACGGGGT TTTGCCATGT TGGCCAGGTT GGTCTCAAAC GCCTGACCTC
186781 AGCCTCCCAA AGTGCTGGGA TTACAGGCGT GAGCCACAGC ACCCAGCTCC TCTTCATTTA
186841 TTCTTGCTAC GCTTCCTCCA ATCCATTTTG TGCATTTGAT GATTTTGCCA GTAACCTCTT
186901 TATTTTCTCG GTAAAATTAC TTATGGGTCA CTGAGGACTG GGATGTTCTT TCTTCTAGAG
186961 GGGGTTTGTG TCTGCTTTTG CCAGGAAGCT GGGGTACCAC CAGTCAAGTA TTACTTTAAA
187021 CTCAATTCAT GAATTGAGAC TTTTTTTTTT TTTTTTTTTT TTACGCAGAG TCCTACTCTG
187081 TCACCCAGGC TGGAGTGCAG CCGTGTGAAC ATGGCTCACT GCAGCCTCAA CCTACTGAGC
187141 TCAAGCAATC CTTCTGCCCTC ACCATTCTGT ATAGCTAGGA CTACAGGTGT GTGCCACCAT
187201 GCCTGACTAA TTTTITAAAT ATTTTITTTA GAGATGGGGC TCACTTTGTT GCCCAGGCCA
187261 GTCTCGAGCT CCTGGGCTCA AGTGATCCTC CCACCTTGGT CTCCCAAAGT GCTGGGGTTA
187321 CAGGCATGAG CCTCTGTGGC TAGCCAAGAC TTTTATTTT TTAGCCTAAA TGTGTATAAA
187381 AGTTGGCTTG TGGTTACAAC TTATCAGGAT TGATGATCTC TCTCTCTCTC TCTCTCTCTC
187441 TCTGTCTCTC CCCACCTCTC TCACATCCCT TGCTCTGCTG AGAAGCAGAG CAAACATTCT
187501 AGCAGTTTCC AGAGAGTAGG ATGGGATTAC TTCTAGTTTA CTTTATCAT CTTTGGGAT
187561 CGCAGTATTA CTGGGAGAAC ACAAGTATCT CTTATTAGAC ATACCACCTT TGTAGAATCT
187621 GGACTTTCAT TTTAGACTTT ATTTGTTTTC TACTATAAGC AATTAAAGTT ACAGATCTCT
187681 CTACACACTG TTTAAGTTGC ATCCCATGAA TTTGATGTG CTTTATTGTC ATTATTATAT
187741 AGTACAATGT ATTTGTAAT TTTTGTGAT TTGTTGGAG AGATTGATTA ATTAGAATGA
187801 TGTTTAATTT CCAAATATGT GTGTTTTTTT CTACATTTCT TATTTTATT GATTTCAAAT
187861 TTATTTCTAC TGTAGTCAGA TTTAATAATT CATTTATTTT TATTATTTTC ATTTTITTAG

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187921 AGACAGGGCC TTCTGTGTT GCCCAGGTTT GTCCCAAACCT CCTAGTCCCA AGCAGTTCTC
187981 CTGCCTCAGC CACCCAAAGT GCTGGGATTA TAGGCACGAG CCACCCGTGC ACAACCAACA
188041 ATTCATTTAA AAAGTGGGCA AGTGAAGTGA ACAGACATTT CTCAAAAGAA GGCATACAAT
188101 TGGCCAACAA ATATATGAAA GAATGCTCAA CATCACTGTA TTAGTCTGTT TTCATGCTGC
188161 TAATAAAGAC TTAACCTGAG ACTGGGGAAAT TTACAAGAGA AAGAGGTTTA ATGGACTTAC
188221 AGTTCCACAT GGCTGGAGAG ATCTCACAAT CATGGTGGAA GGCAAGGAGG AGCAAGTCAC
188281 ATCTTACATG GATGGCAGCA GGCAAGAGA GAGCTTGTGC AGGGAACTC CCGTTTTTAA
188341 AACCATCAGA TCTCGTGAGA CTCATTCACT ATCATAAGAA CAGCATAGGA AAGACCCGGC
188401 CCATAATTCA GTCACCTCCC ACTGGGTTCC TCCCAGGACA CATGGGAATT GTGGGAGTTA
188461 CAATTCAAGA TGAGATTGG GTAGGGACAC AGCCAAACCA TATAAATAAC TAATCATCAG
188521 GGAAATGCAA ATCAAAACCA CAATAAGGTA TCATCTCACC CCAGTTAGAA TGGCTATTGT
188581 CAAAAAACA AAAATAACA AATGCTGGTG AGGATGTACA GAAGAGGGGA CTCTTATGTC
188641 CCCTGGTGG AAATGTCAAT TAGCATAGCC ATTATGCAA ATAGTATGGA AGTGAGGTAG
188701 GTTACATAGG GTGGTCACAG CCTCCCTTGA AAGGAAACAA GAACTTGTC AAATTGATGG
188761 AGAGAACAAA TCTCTTGACA TTACACAAAC TGCATCTGGG GCTAGTGGTT AGAATATCCT
188821 CAGTCAAGGA GGTAGAAGAG CAGGAGGGA AATCCCTAAG TTCGTGCAAG TGCAGAAACC
188881 CACAAGCTGT GTTCTCAGGT TGACATATAC TCATTTTAAAT AGTAAGAAAC ACACCCCTGG
188941 GTAGAGAATT AAAATGCTAA TAATACATGT GATGTATGTA CTAGCGTGA TGGCAATATT
189001 GCATGCACAT TCAAGAGACC ACCCAAACA TATTTAACA CAATGCCCAT TCCCACCCCC
189061 TCATGGATAA TCACGTAGGA CTCCCATAAC GGGAGTTTCT TCAGTGTCAA TTGGTCTGA
189121 AGTAGCCGAC CCTGACTCTG CTATCAGCGT GTACTTTCAC CTTGCAATAA ACTCCTTTGC
189181 CTACTTTTAC TTTGGACTGG CTTTCAAAT CTTTTGTGCA GGAATTCAA GAATCTGAAC
189241 CAGCCTACTG ACAACAGAGG TTTCTCAGAA ACCTAAAAAT AGATCTACCA GATGAGGCTG
189301 AAAATCTGCT ACTGGCTATT TATCCAAGG GAAGGAAATC AGTATACAAA GAGACACCTA
189361 CATCCCCATG TTTATTGCGT CACTCTTAC AAGAGCTGAT ATATAGAGTC AACCTAAAT
189421 GTTCATTAAC AGACAAATGG ATAGAAAATG TGGCATATAT ACACAATGAA ATACTATTTG
189481 GCCATGAGAA GAATGCAATC TTGTCAATTG TGGCAACGTA GATGAACTG GAGAACATTA
189541 TGTTAAGTAA GATAAGCTAG GATTGGAAAG ATAAATACTA CATGTTATCA CTCATCTGTG
189601 AAAGTAGAGA AAAATTTTAA GCTCATGGAT TTAGAGAAAC GAACTGTGGG TACCGGAAGC
189661 TGGGAAGGGT AGCAAGGAGG GGAGGATAGG GAGAGGTTGG TTAATGGTGA CAAAATTACA
189721 GCTAGATTGT AGAAATGAGT TCCGGTGTTT TGCACCATTG TAGGGTGCAT ATGGTTAACT
189781 CTCATTTATT GTATATTTT AAAAAGCTAG AAAAGAATTT TGAATACTCA CAACAAAATA
189841 AATGATAAAT GTTTAAGGTG ATGGATATAC TAATTACTCT GATTTGATTA TTACACATTG
189901 TGTACACATA TAAAAATATC ACTCTTTATC CCGTATATAT GTACAGTTAT TATATGTCAA
189961 CTAAAAATAA AAGAAAAAAA GAATATGATC TATCATGATG TATATATCAT GTGTACTTGA
190021 GCAAAATGTG CATGCAGATA TTGTGTATAA TGTTCTATAA ATCAATTAGC TCAAGATAAT
190081 AGATAGGATT GTTCAGATCT TCTGTGCTT TACTGATATT TTGTCTAGTT ATTGCATCAT
190141 TACCAAAAAA AGGGTGTTAA ACTCTCCAAA TGTGATTGTA GAATTGTCTA TTTGTCTTT
190201 TCTTTTCCAT TTTTACTTTA TGTATTTTGA AACTCTGTTA TGACATTTTG CTATGTATTT
190261 TAAAACCTCG TTATGTATTT TGAACTCTG TTGTTAGAAT CATACTTTA TGATTATTAT
190321 GTTTTCTTGA TGAAATGACA CTTTTCTATT GTCATTGTTT TTGTTTTTTC TGAAATGGAG
190381 TCTCACTCTG TTGCCCAGGC TGGAGTACAG TGGCACAATC TTGGTTCAC TCAACCTCCA
190441 CCTCCTGGGT TCAAGCGAGT CTCCTGACTC AGCCTCCAAG TAGCTGGGAT TACAGGCATG
190501 TGCCAGCATG CCAAACTAAT TTTGTATTTT TATTAGAGAC AGAGTTTCAC CACGTTGGCC
190561 AGGCTGGTCT CGAACCCTCTG ACCTCAGGTG ATCCGCCAC CTCGGCAATT TTATTTTATT
190621 TTATTTTATT GAGACAGAGT CTCACCTGT CACCCAGGGT AGAATGCGGT GGTGTGATCT
190681 TGGCTCACTG CAACCTCCGC CTCCTGGGTT CAAGCAATTC CCATGCCTCA GCCTCCCGAG
190741 TAGCTGGGAT TACAGGCACA TACCACCATG ACTGGCTAAT TTTTGTATTT TTAGTAGAGA
190801 TGGGGTTTTT CTATGTTGGC CAGGCTGGCA ACTGACTCCT TTAACAATAC AAAATATCAC
190861 TCTGTCTCTG GTAACACTCT CTGCTTTAAA CTCTATTTTA GCTGTTATTA TTATAGCCAT
190921 TTAGTCTTTT TTATGCTTTC TGTTTGATA GTGTATATAT TTAATATGT TTATCTCAA
190981 GTTATCTGTG TTTTATATT TAAGATGTTT CTCTTCTAGC CAACGTGTTT GGTCTTGCA
191041 TTTTAAAGTC GATTCTAACA ATCTTGCCT TTCAATTGAA ATATTACAC CATTAACATC
191101 TAACATTAAC ATTTATTTTT CTTTCCACAG TACACTGGCT AGCATCTCCC ATATAATATT

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191161 GAACATAAAG TGTGATAACT GACATCCTTA TTTCATTCTT ACTCTGAGTG GAAAGGGCAG
191221 GGGTGGAGAA AGCATTCAAC AATTTGCCAT AATTATAATG CTTTTTGTTA CACTGTTTTT
191281 TTCTGCATTA AAAAATATCA TTACATTTTG CATGAATTAT TAGGAGAAAA TATTTTCCAA
191341 TTTTCTGGA AAATGCCATA ACCACGTCTC TCAATTTTGT TTCCATCTTT CTTCCACATT
191401 TTACATAACC TACATAAGAG ACACATTATC AAGTATATTT TACATGGCTT CTCAGTGTCT
191461 TCTCTGTCTG CTAACAGGTT TACCAAGAGA TGGCACTCTT GTATTTCTGG TGGCTATGTC
191521 CATATCGTTT TGCCTTTAAG ACAGCGTAAC TACTTCTTTC ACCAGTATTA AAGACATGTA
191581 CATTTGATCT GGTCTTTGTG GATGATTTTA AATGACTCAA GCTAATAATC CTAATTTTAC
191641 CTAAACACTC CATTATTTTA AAATGTATTC CTTTATGCCC ACAATAAACA TTTATTGACA
191701 TTAGGCTGGA CATTAGGCTT CTCTATGGCA GACATTAGGC TGGACCCTAG CCATATATCT
191761 ATTGAGGGAA AAAAATTAT TTTCTATATA AGTTTCCAGA AAGCCAAGAT GTGTTTTAAA
191821 AACAAAACAA AACATTACAT TCTAAATGCT GTAACAAGAT AAGAAAAAGT GTTGAGGCTG
191881 AGAGAAGAAC AAAGCAGCAA GCAACTCCTG GAAGGACCAC TGCTGCAGAG GTAATAACTG
191941 GTGAACCATG TTTTGGAGAA GGAAAAGGTC ACCAAGAGAA GGAGGGGGTC CAGGGTGTTC
192001 AGAAAGATTG CATGCATAAA GATCAAGGGT AATAAAAAAA ATTCCGTATT ATGTAAATGT
192061 GAAGTTCCAG GACCATGAGC TTGGAGAGCA TGAAGTACAG GAGGAGGGTT GGTTCAAAT
192121 AAATCTGGGA ATGAAACAGT GAAGCCTCTG GCAGAACTCA CATCTCTTTC CTCCCTCTT
192181 CCTTGACAT TCCCTTTATG GAGTAATTGC AGGGATGGGA AAAGTTCAAA ACCACCACTG
192241 AGCCTAGGAA GTGCTAGGGT AAAGTGGAGA ATGAACCTGC GTGATTTGCT CATCCTAAAC
192301 TAGGTTCTTC TAGGAGAGCC CTTCCCCATA AAATCTGCCC TCCTCGAAGG GGCCAGACA
192361 GCCTAAGCTC ACCTCCCAA GACCCCTTAC TTGCTGACTG AATCTGATT CACCCAGACA
192421 TGGCCTAAAA CCCTTCCATA ACTCTATAGC CAAATTCAAT TTTAGACAGG CCTCATACCA
192481 ACCTTTCTTC CTCTAAGTCT GCCACCCTAG GCAATTCTCA ACATTCTCTA CACACTTTGG
192541 GGCCATAGAC GTGCTACCAA GTCTCCAGAC CTAGACCTGA TGGAGCAGTG CTGTAATGAG
192601 ACGACCACTG GCCTTTGAAC CAGACCCTTC TCTGTGGCTC CTATGCATCT CCAACCTGTT
192661 TTGAGCACTG CTGCCAAGAC ATCTTTGGCA CTTTGTGTTG AAGTTTTAAA ACTGAACTAA
192721 TCTACAAAAC ACCTAACCTT TAAAAATTCA TTGTCATTTT ATATCATGAA AGATAAAGAA
192781 AGGCCAGGAA ACTGTTCCAG GTTAATAGAG ACTAAAGAGA TAGCAACCAA ATGCAATTTG
192841 TGATCCTGGA TTGAGGGGAA AAAGTGTGTT GTAATATAGG AAGATGATTA TCTGCAACTT
192901 TTGAATTTGA ATTTAAAGAT AAAGTATTGA GTAATATAGG AAGATGATTA TCTGCAACTT
192961 TCAAATGTTT CAGTAAGTAT ATATATATAT AAAGAGATAT AAAGACATAT AAATAATGG
193021 ATAGGTAGAG AAAAAGCAA TGTATAATAT TAACAATCTA GGTAAGAAAGT ATATGAGTGT
193081 TCTTTGTACT GTTTTTCTGA TTTTCTTATA TGTTTTGAAAT CATTTTAAAA TAAGAAGGTT
193141 TTTGGGTTT TTTTGTGTTT TTTTGTGTTT TAGAGACAGC ATCTTATTCT GTCACCAGGC
193201 TGTAGCTCAG TGGCCCAATC ATTGCTCACT GCAGCCTCAA CTTCTGGGC TCCAGTAATT
193261 CCCCCTACCT CAGGCTCATG AGTAGCTGGT ACTTCAGGTG TGCACCACTG CACTCAGCTA
193321 ATTTTATTTT TTAAATTTT TGTAAGATG GCATGTTGCT ATGTCACCCA GGCTAGTCTC
193381 AAATCCTGCT CCCCAGTGA TCCTCCCACT TTGGCCTCCC AAAGTGCTAG AATTATAGGC
193441 ATGAGCCACT GCACCCAGCC CCAAATAAAA AAGTATTTTA TTTTAATTAA CTAATTAATC
193501 TTGAGTCAGA GTTTCACCTT TGTCACCCAG GCTGGAGTGC AATGGCATGA TGTGGCTCA
193561 CTGCAAACTC TGCTCCTGT GTTTAAGCGA TTCTCTTGCC TCAGACTCCT GAGTAGCTGA
193621 GATTACAGGT GCCTGCCACC ATGCCAGCT AATTTTTATA TTTTATAGTAG AGACGGGGTT
193681 TCAGCATGTT GGTCAAGCTT GTCTCAACT CCTGACCTCA GGTGATCCAC CCACCTCCGC
193741 CTCCGAAAGT GTTGATGAGC CACCACACCC GGTCTAAAAA GTATTTTAAA ACCACAGTCC
193801 CACTCTACCT TGTCTACAC TACCAGGGGC TAGGATCACC CCATGTCTTC TAGGCTATGA
193861 GATAGAGGAA TCCAAGGAAG AAGATAAGCT ACTTGGTTCC TCTATAGGGT CTTGTGTGTG
193921 CTCTCATGTG CTCTCTCTCT CTCTCTCTCT CTCACACACA CACACACACA CACACACACA
193981 CACATGAATA CCAGAGCTAT CACTTTCCCA GTCTAGTACT CATCTCATCC CAAGGGTTTT
194041 GTGTTGTAGT GGTGTTGCTCA TTTCTTTGTT TTGTTTGTGTT GCTTGGATTA TTCTTTTTCT
194101 CTTTTTGACG CTGAAGGGAG AATTTCCAGG CCAGCCCTTT GGCCATTAGA GTTACAGTGC
194161 CTCTATTAG GCTTCATAGA GAGACCTGGG ATTCACTAGT GGGGGGCTTT TATCCAGTTC
194221 AAAATAATGC ATTCTACCA AGATGTACTT TGAATAAAAA CAATACTAAA ACACAAAATT
194281 TTATTTATGC TGAACATTGA ATCACTTTT TCTGTATTTT GTGTAGAAAG TTATACACAC
194341 ACAAACACAT TTGCTCCTGC TTTGTTTATT GGCCAGGGG TATGTTTGGT AATACTTCAT

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194401	CAGGCATGAG	TAGTACGTCT	TGGAAGGTGT	GGTCTAAAGC	CTAGACTCCT	ATCTGCTTCC
194461	TTCAGCATTTC	TCCAGTGTAT	CTGTCACTCTG	TCTACCTTAG	GATAGGGGTC	TCCAGAAGCTT
194521	CCATTACAT	TTAGAAGAGG	GCAGCGGCTT	TCTATGGAAA	ATATGAACTC	TCATTTCATCT
194581	CTATTCCTTC	TTCTAGCTAT	GGTCCAGCTC	AGCTGTTTGG	AATAAAGTAT	CTATATGAAG
194641	TCTGCGAATG	GTTCTCAGAC	TGGTTGAACA	TTAGAATCAC	CTGAGTACCT	TCTAAAATTC
194701	TTATTACCCA	GGGCATATCT	CAGAATGAGT	ACCGCAGGGT	AGGGATAGGA	TTAGGGATCA
194761	TGATCTCTGG	AGTCTGGTTT	AGGCACTAGT	GCTGTTTAAA	ACTACGTTCA	TGAGGTGGAG
194821	GTTGCAGTGA	GCCGAGATGG	CGCCACTGCA	CTCCAACCTG	GGCGACAGAG	TGAGAGTCTG
194881	TCTCAACAAA	ACAAAACAAA	AAAAACCAAC	TACCCTTG TG	ATTTGAATGT	CCATCCAAAA
194941	TTGAGAACCA	TTAGGTAAGG	CCAAGCTGTA	TAATTAAGA	GCAGTTTTCA	TTTGTCTGGT
195001	GTGGTGGCAG	CTTTTTGATA	AGGGAAGTAT	TGTTGCCATC	CACATACCTG	AGCCTCACTC
195061	CTGAGAACAC	TGGTGTGTAT	GTTGCTAAAA	TTCCCCAGGT	GATTCTGAGG	TTCCCTTCTG
195121	GATAAAAACC	ACTGACCCTG	GGAATGTACC	CACTGCCAAT	CTCCTGCGTA	AACCTTGGAT
195181	ACTGGGAAGC	CTACAGTTGA	AAATATTGGG	CTTGAGATCC	TGAAACAAAT	CTTGTATTTC
195241	ATTAAGACTA	ATATTTGGTA	CAGTGCAGCA	AATCAAGGGA	ATTTTGGTGG	CTGAGTCTCT
195301	TTAGAAGTTT	TGCATTGAAA	TAGGTTCAAG	CAGCAATAAG	TTAAAAGTAC	AACCTCAGCT
195361	AAAGGATTAA	AAGACACGTG	AGCTGGGTAG	GATGAGGTCT	AAGGTTGGGT	GTGGCGGCTC
195421	ATACCTGTAA	TCCCAGCACT	TGGGAGACT	GAGGTGGGTG	GATCACTTGA	GGTCAGGAGT
195481	TCAAAACCAG	CCTGGCCAAC	ATGGTGAAAA	CCCATCTCTA	CTAAGAATAC	AAAAAAATTA
195541	GCTGGGCGAG	GTGCCAGGCA	CCTGTAATCC	CAGCTACTGG	GGAGGCTGAG	GGAGGACAAT
195601	CACTTGAAGT	CAGGAGGCAG	AGGTTGTAGT	GAGCTGAGAT	CGCACCCTG	CACTCCAGCC
195661	TGGGTGACAG	AGCAAGACTC	CATTTAAAAA	AAAAATAATA	ATAATAACAA	TAATAATAAT
195721	TCAGACATAT	CCAGGCATCA	AACAGATACC	TGGGGCAGAT	GAATAGTCTT	GAGATTCAAG
195781	TCACACATGA	AATTTAGGTG	GAAAATGACA	TTGGAGAAAT	TTGAGATTAT	GATGAATGGA
195841	AATTTTCAA	AGAGGAATTT	CAGGCTCTGT	TCTTGAGGGG	ATAGATGGAC	TTCCAACAGC
195901	AATAACACAG	GATTAATGAG	GACTTGGGAT	GTTACATAAA	TTAGAGATGT	TAGATGGATA
195961	AAGAGATAAA	AGTACTCTCT	CTAAGAACAT	GGGACCAGAG	ATAGGCTCAC	TTCTAACCAT
196021	CAGATATAAC	TAGCAGACTA	AACGGTCTAA	AAATAAAAAAT	CATGCCCCAC	TCCTGCTTAA
196081	GACATTTTAA	TTACTCTCAG	TAACTCTTCA	GTTTTTCTAC	TGTGTTATCT	TTAACTACAG
196141	GGTTGGTCTG	GGTGTGCAAC	ACAAGAAAGC	CTGGCATATA	CATGGATTCA	AGTGATGCCC
196201	ATGTGCAGGT	ATTCTTTTCAT	GTACTATTTC	ATGTATTCTT	TTTCACATCT	GTTTTTTCCT
196261	TCATTGAAGT	CAATGGCTGA	TATTAGATTTC	TACTATTTCAT	GTGTACTAGT	TATATATAAT
196321	TGTTACAAAA	CAAATTAGCA	AAAACTTAGT	GGCTTAAAGC	AACACACATT	TATTATTACC
196381	TAAGGTCTGT	GGATAGAAGT	TCTGACATGG	CTTAACTGGG	TTCCCTGCCT	CAAGCCTCAT
196441	GTGGCTGCAA	TCCAGGTGTT	GGCTGAGTCT	GAATTCCTCAT	CAGAGGCTTG	ATTGTGGAAA
196501	TTTCCACTTC	CAAGCTCCCT	CAGGTTTGTG	GAAAAATTCA	GTTCTTTGCA	CCGGTAGAAG
196561	CTTCTTG GTA	GAGGCTGATT	CAACTTCTAG	AGGCTGTCTG	CAGTTCTCTGT	CACCCAGGGT
196621	GGAGTGCAGT	GGAGCAATCA	TAGCTCACTG	CAGCCTTGAC	CTCCCAGAAT	CAATCTGTTT
196681	TCCCACCTCA	GCATCCTGAG	TAGCTGGGAC	CACAAGTGTG	TGCCATCACA	CCTGCCTAAA
196741	AAACAAACAA	ACGAAAAAAA	ACCCCCAGAG	AACTTTGTAG	AGACAAGCTG	GTCTGGAAGT
196801	CCTGCGCTCA	AGCAATTCTC	CTGCCTTAGC	CTAAAAGTTC	TGGGATTATA	GGTATAAGCC
196861	ACCATACCTG	GCATATGGCA	AGTCTTGAGC	AGGACAAATA	CAGATGATTT	ATGTCTGTCT
196921	TCCATGGTAT	TCTAGGTTAT	TGTTGAGATG	GTCTCTATT	GTCTTGTTCC	ATCTATTGAT
196981	TAGATAAAAC	GTTGTTCCCT	CTGTTATTTT	TCAACAGTAG	CTTTTATGTG	TCTCTCTTTA
197041	TCTTAAATTT	CTAACCAGAG	AGCTGCTCTT	TTCTTGGTGT	ACTTTACCTT	TGGTTGATCC
197101	TTCTTAACCT	CTTCTTGCCC	TCTGGGGCCT	AAGATGAGGG	CTGTTATCAG	ATGTGAGTCT
197161	ATGGGAAAGC	AAGCAAGAGG	TTCTTCAGCC	TCCGTTGAGC	CTTAAATGTC	TAGGTAGAAA
197221	TCAGTCATGG	CCCTTCCAAT	GTGGTACAGA	CCAGATCACA	GAGACAGGGG	TCTCAGCCAA
197281	GGTCTTGTTG	CCTAAGCCTT	ATAGAAATAA	TGAGTGTTTA	CTTACTTGGA	GAACCTCCCTT
197341	GGAATATCTT	TTTTTGTGAA	CCTGAGGCAA	CTTTTGGTGA	TTTCTTGATG	TCTTGGGAAT
197401	CTTGGTCTAG	AGCCATTTCA	ACCCGATTTT	TTTTCATGTC	AGTGGCATT	TGTGACCAGA
197461	TAGTAAATAA	GTTCTATGAT	GTTCACTCAG	AGAAATACAA	TGACTTATGA	TGCGAAGCTT
197521	CTGTGGTTCA	GCCCTTACTT	CATCTTCATT	CCCTCTTATC	TGCATCTGTC	TCCTGCTTGG
197581	GAACAAAAGT	CTGGCTTCAT	TCTATGACCC	CCACGTTGAG	TTTCTTAGTA	GCACTTACTT

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197641 TTCAATTAGG AGTGTCTCA CTTCTATCCG TCAGACATAA CTAGCCGACT AAACAGTCTA
 197701 AATATAAAAA TCATGTCTCA CTCCTGCTGA AAACATTTTA ATTACTCCCC ATCATTTAAT
 197761 TTTTCTACT GGGTTATCTT TAACTTCAGA GTTGGTCTTG TGTGCAACAC AAGAAAACCT
 197821 GGCATATACA TGGATTCAAG TGTATGCCAC GTGCATGTAT TCCTTCATGT ACTATTTTCAT
 197881 GTATTCTTTT TCACATCTGT TTTTCTCTCT AAAATTTATT TCCTTTTAAA AATGAAAATT
 197941 TTGCATTGA CTAAATTTGT CAAATTTAGT CAAATTTGTT TAAAACCATT TTTAAAATGT
 198001 TTCCCGAAGT TTTGAGTGAA GTTAGTACTT CAGAAAAACT GTTTTGTATT TTTCTGTGA
 198061 CCTCAGTGCA CTGCTGTGCA TTTCCATTTC TGCCTCCACA CACATTTGTT TTGAGGAAAT
 198121 ATAGGAACGA CAAGATAAAG TTCAAGCTCC TGGACATTGC ATAAAAGACC GTCATGACCT
 198181 GGTCTGTGTG ACTTCCCTAG ATTTCCCGCT ATTTCTAAG TTGAGATTTT TGGTTTGGAT
 198241 GCTTTGTGTT TTCCTAAAAT CAAAATAGGT TTTTGCTTTT TATGATTATA CAGTAAATAA
 198301 ATGCTATTTG TGTGAAACTT TAAACAATAC AAAAAAACC TAAGGAAGAA AGTCAGATTTC
 198361 ATCTAAAAAT CCTTGTGGCC AGAATTAAC ACCTTAGTTA CTATTTTCTC TATCTCTCTC
 198421 TCTCAATGTA TATTTGGTGT AGGTATAGGG GTGTGTGTAG TGTGTGTGTA TGTATATATC
 198481 TGTTCCTATT CCTGTATGTG GATGTGCACA ACGCATCCTG CTTTGTACAC TACAGTACTA
 198541 GCATTTTCTT AATGTAATTC AATATTGTTG AAAACATTTT AAAAAAGCTT GTATATATAC
 198601 ACACACATAC ACATACATGC ATGTATGTAC ATATACACAT ACAGACAAAA ATGTATCCTA
 198661 TGTATATTCA CACATGTATA CACACTCACA CATACATAGA GTTTTACATC CATAGTTTAT
 198721 AAATGTTGCT TTTTTTGGT CACCTTTTGT CTAAGTCTTA CACTTTTTTT TTTTTTTTTT
 198781 GAGACGGAGT TTTGTTGTCA TTGCCAGGC TTAGTGCAGT AGCGCGATCT CACCTCACTG
 198841 CAACCTCGAC CTCCCGGGTT CAAGCGGTTT TCCTGCCTTA GCCTCCTGAG TAGCTGGTAC
 198901 TACAGGTGTG CGCCACCATG CCTGGCTAAT TTTTGTAGTT TTTTATAGA GACGAGGTTT
 198961 CACCATGTTG GCCAAGCTGG TCTGGAATC CTGACCTCAA GTGATCTGCC TGCCTCAGAT
 199021 TCCCAAAGT CTGGGATTAC AGATGTGAGC CACTGCACCC GGCCAAGTCT TACACATCTT
 199081 TTTTTTACCA CTAACTGTT TACCCAAACC TGATAACCCA AGTCAACAGC TATTATGGCT
 199141 CACACAATCT TATGTAAACA AAGATACAGA TATATAGAAT TTTCTTGATT AATATTTCAGA
 199201 AAAAAATGGA GTCCCTTTAT ACGTCTTTAG TATCTGCTTT ACTCATTTAA AAATGTATTA
 199261 CATTATATGA AAGTATTCAG GTCAAATGTT ATAGATGTGA TTCAATCTTT TTAAGTGTGT
 199321 TATTTTCTG CAATGACTAT GTATCACAAA GTACTCAGTC TTCCACTGAT GAAAATTTGG
 199381 GCTATTTCCA GTTTGTCTTC CATTTTTCTT TCTTCTCTT GGATTTTCAC TCAATGTGTT
 199441 TACTAATTTA GGAAGAATCA ATAGTTTTTA TGGTATTACT TCTCCCATTC AAGAATATAG
 199501 CATATGGTAT AGTATAGTAG AGTACTTAGT TTAATTTAGC CAGATCCTGT TTTCTGCCCT
 199561 TTAATAAAAT TCTATCATTT TCTGCCCTTG AGTCACATTT TCCTTGTTCA TATAATTTCTT
 199621 AAAAAATGTA TAGTTTTCAT TCTAAGGGAA CATAAAAACT TCTTTCCATT TCTATTCTTG
 199681 TCTAGTTAAT TCTACTATTG GGAAAAGTAA CTGTTAAAAA AAATTTCTAT CTTTCCAGTC
 199741 AGTTCACCAC ATTTCTTTTA TACCTTTGTA CTTTAATCCC CAGTCATGTT GAACACTTCT
 199801 TATTCCTCAC ACCAAGCCTC AACGGGTTTG CTCTTTCTGG AAGGTGCTTC CCCTGTATTA
 199861 CTGACTTATT CATACCACAC ATGGAGACTG GCGCAGCCCT GTTCTGCTG GGAAGCCTTC
 199921 CCCTGATACC CCCAGTTGGC AGGAGTCTTC ATTTGTTCTT TTCTAGTCAC CTGTGCAAGT
 199981 TTGTATTGTT CATGTTTATC ATCCTTCATT CTAGTTGTCT GTCTCTGTGT GTGGTCTCAT
 200041 TCAGTGGACT CTGAATCTT ATGAAGTCAT GTCATGGGTC AGATCTTAAT AAATTAATAT
 200101 TGTCCGGAAGC TAATGTCATG TCTAGAATAC AGAAAATTTA TCAAAAAAAA ATATAGTATG
 200161 TTGGCTGGGC GCAGTGGATC AAGCCCGTAA TCCCAGCACT TTGGGAGGCC GAGGCAGGAG
 200221 GATCACATGA GGTCAGAAAT TCAAGACCAG CCTGGCCAAA ATGGTGAAAC CTCATCTCTA
 200281 CTAAAAATAC AAAAAGTAGC CAGGCGTGGT GGTGCCACC TGTAATCCCA GCTACTCAGG
 200341 AGGCTGAAGC GGGAGGATCA CTTGAACCTG GGAGGCAGAG ATTGCAATGA CTGAGATCA
 200401 TGCCACTGCA CTCCAGCCTG GCGACAGTG AGACTCCATC TCAAAATAAT AATAATAATA
 200461 ATAATAATAA TAATAATAAT AATTGTATGG AATTGAACTG CTCTGATTGG AAATAGCTGT
 200521 TTTTAAAAA ATTATTATTT TTTAAGTTCC TGGGTACAAG TACAGGATGT GCAGGTTTGT
 200581 TACATAGGTA AACGTGTGCC ATGGTGATTT GCTGCACCTA TCAACCCATC ACCTAGGTAT
 200641 TAAGTACAGC ATGCATTAGC TCTTTTACCT AATGTTCTCC CACACCCCA CCCCATCCTC
 200701 CCCCACAGG CCCCAGTGAG TGTGTTTCCC CTCCCTGTGT CCACATGTTT TCATTGTTCA
 200761 GCTCCCACTC ATAAGTGAGA ACATGAGGTG TTTGGTTTTT TGTTCCTGCC TTAGCTGTTA
 200821 ATGTCAGGCC AGAGAGGCTT AAATTTTAA GGATCTCTGG ACTTTTCTTC TACATTACTC

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200881	TTGATGTTTA	TAAATGTTAC	AACCTCTTTA	ATTTCATTTA	ATGTATACCT	TATTGAGTTG
200941	ATTTAACCTGA	GTTAACTTTG	TTATATGAAA	ATCATGATTG	GGAGTGAGGG	GGTTAAACCA
201001	GCTACAGAGA	TCTTGATTGT	TGGTGGTGAA	GCAATGCAAG	AATTCATTCA	TTCAGTAAAC
201061	TAATGTTTAT	TAAGCGTGTA	CTGTCTTAGT	CTGTTTCAGAC	TGCTGTAAAC	AAATATCATA
201121	AACTGGGTGA	CTTATAAACA	ACAAAAAATT	TATTTCTTAC	AGTTCTGGAG	GTGGGAAGTC
201181	TAAGATTAAG	GCCCTGGCAA	ATTTAGTGTC	TGGTGAGGAC	AGGTAGCCAT	CTTTTGTCTG
201241	AGTCCTAACA	TGGCAGAAGG	GTTGAATAAA	CTTCCTTGGG	TTTCTTTTAT	AAGGACACTA
201301	ATCCTAGTGA	TGAGGTTTCT	GCCCTCATGG	TATAACTACT	GCCCAAAGAC	CCCTCCTTCT
201361	AATATTATCA	CTTGTGGGT	TAGGATTTCA	ACATGAGTTT	TGAGAGGATA	CAGACATTGT
201421	GATCATAGCA	CACACCATAG	GACAGACACT	GTGCCAAGAA	TTGTGGATAT	AGTGATTCTC
201481	AAAATGAACA	AGATCCCCTC	AGAGAGCTTG	CAAAATCCAG	CTATAAAATT	ATGCTTTTTA
201541	AACAAATTAT	GCAGTTTGAA	AAATCTACTC	TGAATCTTAC	TTGTGGCATT	GAATACTTTT
201601	GGCCACTCTT	TCCTTATTAT	ATTAAATATT	TACTCTTGTT	TGGGGGATCC	AGTCTCACCT
201661	ACTTTTTCTA	CCGAACTGG	TATCAGCTCA	TGCTCTGCCT	TATGCAAATT	AAGAAAATAT
201721	CATACCTTTT	GGGTAAATTA	AGCCAAGAAA	GTTCTCCTTT	CTTCTCTTTC	TCTCTTTCTT
201781	TCTTTCTCTC	TTTCTCTTTC	TTTCTTTCTC	TCTCTCTCTT	TCTTTCTTTC	TTTCTTTCTT
201841	TCTTTCTTTC	TTTCTTTCTT	TTTCTTTCTG	ACAGGGTCTT	GCTCTATTGC	CTAGGCTGGA
201901	GTGCAGTGGT	GCAATCTCAG	CTCACTGCAG	CCTTGAACCT	CAGGGCTCAA	GCAATCCTCC
201961	TGAGTAGCTG	GGACTATAGG	CATGTGCCAC	AACATCAAGC	TAATTTTGTG	ATTTTGTGTT
202021	GGAGACGGGA	TCTCCCTATG	TTGCTAAGGC	TGGTCTTGGA	TTCTGGGGCT	TATGCGATTG
202081	TCCTGCCTCA	GCCTCCCAAA	GTCCTGGGAT	TACAGGCATG	AGCCACTGCC	CCTGGCCATT
202141	ATAACTATTT	TCATTGGCTT	ATCAGGCACA	TGATAACTAT	AATAAATCAA	TAACCAGAAT
202201	TTTTAAATAA	AGAAAGGAAG	GAATTGTTTC	AACTCTTCCT	GCTACCCCTC	TATCCCTCAA
202261	AAGGGTAGGC	TGAATGTTGT	CCTCCAAAGA	TATCCATGTC	CTAATCCCCA	GAACCTGTAA
202321	ATATATTACC	TTATATGACA	AAAGGGACTT	TACATGTTTA	ATAAGTTAAG	AATTTTGAGA
202381	TGGGCAGATT	TTCTGTAATT	TTGCAGATGG	GCCCTAGTGT	AATCACAAGG	GTCCTTATAA
202441	GAGACAGGCA	GAAGAGTCAG	AATAAGAGAA	AAATACTTCA	AGATGTTACA	CTGCTGGCTT
202501	TAAGGTGGAG	GAAAGGCCAA	GAGCCAAAAA	ATGCAGTGGT	CACTACAAGC	TGAAAAGAAA
202561	AAGAAATGGA	TTTTCCCCTA	AAGCCTCTGG	AGGGGGCACA	ACCTTGCCAA	TACCTTGATT
202621	TTGGCTCAGT	GAAACCCATT	TTGGACTTCT	GACCTTTAGA	ATTGTAAATA	AATAAATAAT
202681	TTTGTGTTGT	TTCAAGCCAT	CACAGTTGTG	GTAATTTACT	ACAACAGCAA	TAAATAGAAA
202741	TTAAATACAG	AGATCTGAGG	AGTTGAGTAG	GATAAGCCTA	CTCCAGCAGG	TTATTTGCGG
202801	AGTATGGTGA	GACTCACTAG	GATGGCGGAA	CTCAATTAAG	GAAGTCTGAA	GCTGATAAGC
202861	CAGAGAGGGA	AGGCTCTCAT	TTCAATTTAT	AAGGGTTGCG	TCACACTAGG	AAGATCCAAT
202921	AGCAACCACA	GTCTCAAAAT	TAATGATTAC	AAATAGGACA	CAATCCCAAG	AGTCGGGAGC
202981	CAAGCAGAAA	ATGGATTAGG	GAAGACATGG	ATGATATGAA	ACAGGAAGGA	GGGGTACAAG
203041	GCAGCTTCCT	GGGAAGTTGC	CAGGGCAGTC	ACAGTTCACA	TTCAATAGGC	TGTGGGCACC
203101	AAATGCATAT	GGAAAATCTA	GCTGACTTAA	CTGAACTCCT	GAAGAGGAAT	GAACACCTCA
203161	TTTATTGAGG	AGCTACTACC	AATTAGAATA	TGTATTTTCT	TTGTTCAATA	ACCCCATGAG
203221	TACAGTAACA	CAATCCTTGC	TTTACTAAAG	CGGAAGCCAA	TTCAAAGAGG	TTCACTGACT
203281	TGTCGAAGCT	CAGGGAAAAC	ACTAGGAAGT	GAATATGGGT	CTGACTCCAT	CACTGATTTT
203341	AGGAGCCCTG	CCCTTTCCTC	CACACCATGC	CCCTTGCTT	TCAGAAAAAA	AGGCTTGTTG
203401	ACTGAATGGT	TGTATGCACA	GTTCAAAGCA	GAAACACACG	ATGACATCTT	TTGAGATACT
203461	CTAACAGTGA	GAACCTGAAA	ATGAAGTTAA	AAATTAAGCG	GCAAAACCAA	GCCGAGGCTT
203521	TCTGAGAAAAG	TGGGGCCAAA	CCTGTTGCCG	TCTGACTGCC	ACGTGGCTCA	CTATTTATCC
203581	CTGTAAAAAT	CTGCAAAAGT	ATTTGAAAGG	GAAGAAGGGA	CAGAAAAATC	CCTCCTTTTC
203641	CAAGTTAGCC	TTATAGTCTA	GGGCTTAAAA	TACTGGTTTA	ATGGTGAAGG	TAAGTGCTTT
203701	TCTTCTTTTT	GGGTAGAAGG	ATTATTACTA	ACTTACCAAA	GGTCCATTAA	GGGGAGGGAA
203761	CAGTTTTAGG	AGAAGTCAGA	GAAAAGACAT	TAACAGCAAC	ATAAGGATCT	CCATCTGGTA
203821	ATATTGCCTA	ATTCCAAAAT	GAAGAGACTC	TCTGAAAAAG	ATAACTGATT	CAATGAAGAC
203881	CCTAGGGCAA	GGCTTGAGAA	GCCACTGGTA	CCAATGGACA	CTGTGGACAA	TGGTCATTTT
203941	TCCAAGGACG	CTGTGAGTAT	TAAGTGTGAT	GCTGTGATTA	GTCAGACTGG	GATTGGCTGT
204001	GGAATGAAAT	ACTGATCAGA	ACTGACAAGA	TTGTGTTTGT	GGACTGTGGC	TAACGAGTCT
204061	TTTCAGACTT	CTATATGAAT	TTGAAATGGT	CTCTCAGGAA	AAGGAGAACA	TGGCCGGGCC

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204121 TGGTGGCTCA CGCCTGTAAT CCCAGCACTT TGGCAGGCTG AGGCGGGCAG ATCACTTGAG
204181 GTCAGGAGTT TGAGACCAGC CTGGCCAACA TGGTGAAACC CTGTCTCCAC TAAAAATACA
204241 AAAATTAGCA GGGCGTAGCG GCGCGTGCAC CTATGCGCAT GCATAGTGCG CGTGCCAGCT
204301 ATTCAGAAGG CTGAGGCAGG AGAATTGCTT GAACCCAGGA CGTAGAGGTT GCAGTAGTTG
204361 AGATCATACC ACTGCACTCC AGCCTAGGTG ACAGAGTAAG ACTCTGTCTC AAAAAATAA
204421 TAATAATAAA AGAAAAGGAG AACATGACCA AAGTTATGAA TAAGACTGAA GGCAAGAAAA
204481 TTGTACGCTT GTAGAGATCA CCTAGCTTGT TGCCCTCATT GTACAGCTAA GAAAAGGCAC
204541 CCAGGGACAT TGTGGTCAGC ACCAATTTCT CAGAAAGATA GGCAGATGAT GAGAGGGCCC
204601 TCAGTTTTTC TAACACTGAA GGAATTGCTT CTATGTTTTT TGGTGAACCT CTCCTCACTC
204661 ATCTTGAGGA TTCCAGGCCA GAAGAATCCA CTTTAAAAAA GAAACATTTA AAACCAATTT
204721 AACAACCAAT CAAAGGCAC TTTATAGAAA TACATTTTCAT TTGCTGTAGG CCTGTATTTA
204781 TGGATCTGAG AGGGCTAGAC TGCCAATATT GTGACTGTTT ATTATTATTG CTGTTGCTAG
204841 TATCTAGAAT ATTATACAAC ATATAACACT TTGCAATTTA CGAGGCATGT CTCATACTTT
204901 TGTTTTCACT CCAAACCTGCC CAGTGAAGTA ACATTATCCC AATTCTTCCT ATGAAACAGT
204961 GAAAGCCCTA AGAGTTTTTG AAACCTTTACC TGGTTTACTC AATTTGGGAA TGGCAGAGCA
205021 GAATTCAGTC CTTGAATATC CTCCCACTGC AGGTTTCATG TCTTTGATCT AGGTGTAACA
205081 TTTACTCTGA GTAAACTAGG ACTCTGGGCT AACAGAGATG AAGCAAGACA GGCTGGATAT
205141 TAGGAGAATC TAAGAGCAAT CTAACGACCA TTATAATAAA ATCATGAGTT CTAGACTTAA
205201 AAAAAGGGAA AAACCTGTTT TTTTGCTTAT GCGTATACCA TAATATTTAC ATTATTTATT
205261 TTTTTCTCAA ATTCAACCTA TACTGTGTCA AGTAATTTTT TTTAATATAA CATTTTCTTT
205321 TAACTTAATT TCAATTCATT TTTCTGTGTC TACTTACAAC TTTGGCACTA GAATTCACAA
205381 TTTTTTTTTA GAGGTATATC TCCTTAAAGG GAAGGGTTCT GACACTGTTA CATGTTCTCA
205441 ATTGTTTGCA AATAGGTTAA TAATTATTCC AGTGTCTCTA AGTACATATC AACCATGCCA
205501 GTGTTTCAGCC TCCATAATTT TATTAGCTTC TGTGCTTATT TTGGAAAAAC ATTTCCCATTT
205561 ACCATGAAAG ACCTCAGTTT AGGATGGTTT GGTATGTTAG CCTGATTTCT GCATTCGTCT
205621 CATGCAAAGG AAAATAGGAA ACGAAGAAGT GAAATTACCT ATTGATACAA AATCAAAGTA
205681 GCATTTGAAA CCATAAACT TAAGTAGGGC TTTTCATCCT TTCTCGTTAG ACAGCAACAG
205741 AGAATGGGAA GAAAACTAA AGTGATGGGT TTGTGATACA ATTCCAGTAA CATAAAGAGC
205801 AAGGAGAAGT AGTTTTGTTG TGTTTTATGT TAATATTCAA AGCTCAACCT AAAAGTATTT
205861 TTCATTATCA AACTTCCTTC TAGAATAAAT GATTAAAACT TGATTTAAAA TATACAAATT
205921 CTCCTTTATA ATACCTCAA ATGGAGCTAC CCCATTGAGT TTTAAGCTTG TGATTAATAAT
205981 ATTACGAAAA CAAAGGGGAA GTTGTAAATAG GTAGAACAAG CAGTAGTCTA GGCATTAGGG
206041 GATCTGGTGC TGGCTCTGTG CATCATGTGG TTTCAGGCAA CTTTTCAAAT TTTCTACGCA
206101 AATTTTCTTA TCAATAAAAT AAACAGTTGG GCCAGAGGAT CTCTGAGTCT CTTTCAGCTT
206161 TCAGTGTTTA TAAGATTGGA GAAGTTGGTG GGAAAGCTTT AAGTGGAGTG TAAGTAATTG
206221 CAGCTGCATG TACAGTTAAA GAGTTGCCTT CAGCCAAGCC ACGGGATCTT GCATAAAAAG
206281 TGAAATCAAA TAGAAAATGG TCCAAACTCT GGGTTTGACC ACAGATGACT TCAGTAGGGA
206341 TCTGAGTGTA GAGCAATGAG CTGAACCTCT GATATCCAGA TGTTAGCAAG ACTTGGAGGC
206401 CTTCTAAGGC AGAGCAACAA CCAGTATCTG TCCTGGTGCT GACCTGATCT TACTAGCAAT
206461 TGGGCCTCCA TTTGGGTCCA TTGTACAAA CAACAACAAC AACAACAATA AAATCTCCAA
206521 ACACCCAAAA TTCAAATTT AGATGGAGAG ATACTATTCC CAGAATCTA GAGATATTTG
206581 GAAAGCAGAA AACTATACTT GCCATGCTGA TGAAGTCCAA TTATTGCTCT TTTAATACA
206641 TTTAGCTACT TCTGAATATA AAATGAGTAT CTACTAATTA TTTACAAAAT CACTTGGTAA
206701 ATATAGAAAG TCACAAAGAA TGAAGTGATC ATCCTGTTTT GTAACCCAGA AATAGTCATT
206761 ACTGGCACTT GTGTGAATCA GTTCTATTTC CTGTATGTGG ATGTGCACAG CGTATCCTGC
206821 TTTGTACACT AGAGTACTAG CATTTTTCTA ATGTAATTCA ATATTGTCGA AAACATTTTA
206881 AAATAGCTTC CATCACAATA ATCTATCAAA TTGACTTGCC AGACTCTCAT TATTAGGTTA
206941 ATTTATCTCT AACATTATGC AGTCATGAGT AATACTACAA AGGATATTTT TGGACACAAT
207001 TTTTCATCTA TGCCTTTCTT TATAATCCTT CATCCTAAGG TCACAGATTA TGAATATCTT
207061 TAAAGTACGG ACAAGTCTTT TAAATTTTGT GTGCAAAAAC AGTGCAAAGC CTTGAATGAT
207121 AAAATAGAGG TTTGATATAT GTGTTTTTTT TTTGTTTGT TTTGAGACGG ATTCCTGCTC
207181 TGTCCCCCAA GCTGTAGTGC AGTGGCACGA TCTTGGCTCA CTGCAACCTT TGCCTCTTGG
207241 GTTCAAGCAA TTATCCTGCC TCAGCCTCCT TAGTAGCAGG GTCTACAGCC ATGTGCCACC
207301 ACACCCGGCT GTTTTTGTAT TTTTAGTAGA GATGGGGTTT CACCATGTTG GCCAGGATGA

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207361 TCTCGAACAC CTGACCTCAA GTGATCCACC CACCTCAGTC TCCCAAAGTG CTGGGATTAC
 207421 AGGTGTGAGC CACTGCACCC GGCCGATACA TGTGTTTTTA AAGTCACAGA AATTTTCAGAT
 207481 GTCTTGAAGG ATTTTAAGCA ATTTAAAAAA TAAAGTCATA GAAGCTTCAA TTTAGGAATG
 207541 AATGGAAAAT TGATGATATT CTTAGGATAT GGATTTTTCC TAAAAGAAAC AAATGTATGC
 207601 ATCCCCAAG ATAATTTGAT TAGTATACAA ATATTAAAT AAACATGTCC ATATTTAGAG
 207661 CCATGAATTC TCTTTGCCTG TCACAATAGC TGGATTTATT CACAATTGTA GTAATTAGTC
 207721 CCTGTTCAIT ATAATTTTCT AGGTGATATG AAGACTTTGT CAGTCCAAGC AAGTGTCCAC
 207781 ATTGTGTGTA GCAAACATGA GAATAAACAT TTTAAACTTT TAAATGTAAT ACATATTAGT
 207841 GTTATGTAAT GTCATCCTTC ATGTTCCGAG GCACATGGAA CATTGTTCTG GTGGTACAGA
 207901 GGGGAGAGAA ACACCATCAG AATGAAAGGA AAGACCGCTC TGGAACCTTC CTCCTTAGCT
 207961 CTTGAGCTTA GTTTAATTGT CCGTCTTAT GGTCTGTAC AAGCAATACC ACTCTTCACC
 208021 TTCGCATGCT TCTCTGTGGT TTGATAAAGT ACATGCAATT TTTCAATTA TTCTTCAGC
 208081 TGCATAAGA AAGGAGCCTT ATCTTTATTG AACAGATGAG GAAATGAATG ATTAGAGAAT
 208141 TTAAATGACT AGCTCTAGGT CACACAGCTG GAACCTTACG CCAGATTTCC TTTTAACAAT
 208201 CCTGTAACCA AAAGCATACC AGTAGTGCCC CATAAAATGT AAGTTATAGA GCTGTGTTGG
 208261 GTCAAACTT TACTGATGC TAAGAGGAGG CAACATTAAC AAGGGGAAAT TATTTGTGTA
 208321 TTATGTTTTG GATTATGTTT TCTCCATAGA TAAAGACTG TCGTAGTAAA AGAGATTCAG
 208381 GGCACAGGGA AACTCCACCA CAAAGCGTGG TACCATTTC CACAGAAGCT AAATGGACGG
 208441 GAAGCCTGCC ACCAGGAAAG GTAAAGCCAC TGCTCTGTT TGCAGGCTAT GTTAATAAGC
 208501 TGAAGCTTAT TCCGACACAT TTACACATCT CTGCATCACA CTGACCCTTC GTAAAGATAC
 208561 TCCCAGTGTA ACATTGGAGC CAGTCCAGC CCCTGATCCT GTTGCTTTTT CTTAGCCCC
 208621 ATGAAATCAT CTGTGAGAAA TTAAGCCAAA TAAGCAATAA ATCTGGGAT CTAGGGAGTG
 208681 GAATAAGTTT TGGGAAAGTC TTTTTTTTTT TTTTTTTTGA CTGAGTCTTG CTCTGTCTCA
 208741 CAGGCTGGAG TGCACTGGTG CGATCTCGGC TCACTGCAAC CTCTGCCTCC CGGGTTCAAG
 208801 TGATTCTCCT GCCTCAGCCT CCGAGTAGG TTGGACTACA GGCACACACC ACCATGCCCA
 208861 GATGAATTTT TGTATTTTTA GTAGAGATGG AGTTTCGCCG TGTTAGCCAG GATGGTCTCG
 208921 ATCTCCTGAC CTCGTGATCC ACCGGCCTCG GCCTCCCAA GTGCTGGGAT TACAGGCATG
 208981 GGCCACCACG CCTGGCCCCG GAAAGTCATT TTAACCAAC CTATGTATGA ATCCCTACTA
 209041 TAATATTCTC ACCAAGCGGC TGGCTCTTTC TCCTGAGCTT GGAAACCTCC AGTAAAATGG
 209101 AAATAATTAT TTCCAGACC ACCACTTTA TCTGTGAGCT TTTTGGCCA TTAATAATTA
 209161 TTTCTTCCAT TATATTTTTA TCTGTGCTT CACAGTTTT CTCTTTCTT CACTTTAGTG
 209221 CTTTTCTTCA AATAAGCAGG AAAAATCCAA TCTATCATGC ACATGGGAAC CCTTCAATA
 209281 TTGGTCTGTG GTTGTTCCAT TTTATGGGGA TGCTTTTAAA GAAAAAATTT GTCTTCAAA
 209341 TATATTGAAT ATCTTCCAGC ACCACATCAC CTGCAAGCTT TGTAATAATA GTTCTACATA
 209401 TTAATTTTTT TTTTTTTTTT GAGATTGAGT CTCATTCTGT CACCCAGGCT GGAGTACAGT
 209461 GACATGATCT TGGCTCATTG CAACCTCTGC CTCCTGGGTT CAAGTGATTC TCCTGACTCA
 209521 GCCTCCCGAG TAGCTGGGAT TACAGGCATG CATCACCATG CCTGGGTAAT TTTTGTATTT
 209581 TTAGTAGAGA TGGGGTTTCA CCATGTTGAC CAGGCTGGTC TCAAACCTCT GACCTCAAGT
 209641 GATCCACCTG CCTTAGCCTC GCGACTACAG GCGTGAGCCA CTGCACCCCA
 209701 CGTAGTTTTT TTTTTTTTTT AAGTTGAACA TATGTGAAGG CAGGACCTAG TGACACATAG
 209761 CAATAACATT TCCAAGTAGA CATTACACTA GGGAAATTAGT CGAAGTGCTC ATTTAAAGTA
 209821 CCATCTCTCA AATGTATTAA AAGAGAATCC TTGGATGTGC AATACCTTAA TTCAAAGGCA
 209881 GCTCGTTATG TATAAATCTT CAAGCTTTGT GATAAACAAA TGTGCATAAC AGATGGGACT
 209941 ATTCACCTAC AGCCCAGGGA ATTTTATTGA CGCTGAGAAG GTTATGTGAC TGGCTCTGCC
 210001 ACTGTCATCC CCATTCACTT CATTTTGGAG CAATATGACA TAAATGCCCT ACATGTGGGT
 210061 TTTCTCTATT TATCATGTGT TTCCTATCCC CTTGAAAGAT GGCCATATTT GCTTTACTTG
 210121 GTTATAAGAT CCCATATTCC CTGCTTGAA GCCAACCAA TAATTTGACA AAGTGGGTTT
 210181 GTAGTGCTGG CTATTTTGGT GAAAAAAGA CAATGAGACT TCATGTGTCA TCCAAAGTTC
 210241 TATCAGATCG AGCTGTGAGA GAAAGGAAAA GAAAGGGGTC TCAGTCAGGA TGCTCACTAC
 210301 ATACATCTGT GTTGTGTCT AGGTCCAGAT TTCTGTTTAT TACGCTATGG GCTGGCTCTT
 210361 ATCATGCACT TCTCAAACTT CACCATGATA ACGCAGCGTG TGAGTCTGAG CATTGCGATC
 210421 ATCGCCATGG TGAACACCAC TCAGCAGCAA GGTCTATCTA ATGCCTCCAC TGAGGGGCCCT
 210481 GTTGACAGAT CCTTCAATAA CTCCAGCATA TCCATCAAGG AATTTGATAC AAAGGTAAGT
 210541 ATGATGGAAA ATAGGGCTCT TTGTTGAGAG AAAAACTTT GAAAGGAAGG CATAGATCTT

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210601 GATTCTGTGG AGTATGGAAG TATACATTTT CAATGACAAA TTA AAACTGA CTGGA ACTAT
210661 TTTTCTTTGA GACATTGCTT ACTTCAATAA TAAAAATAAG ATTTTCATTGA GGTATTATATG
210721 ATTATAAGGT GGGGGAAGCTG TAGAGTTAAA TGTGAAAAAT TTA AAAATGG AACAGTTTAT
210781 GTGATGTCTT CAATGAAAAA CTAGGTATTA CCTGGGCACA TTCTTATAGG TTA CTCAATC
210841 CTATTCAGTT CTCTGCCTGT TTTATTGTTT CTGAGCAATT TTATATCCCT GTAAATTTCTA
210901 TATAACCAAT AGAAATGCAA ACGATTCTTG TCCATAGCTT TGCAAAATAA TTTTGCCAAG
210961 AGAAAAATCA GTTAAACTT TTCTCCACTC ACCTCCCAGT TGAATTAGCC AATTTTGCTG
211021 TTTGTTTGTT TGTGTTGTTT TTGAGATAGA GTCTTCTCT GTCAATCAGG CTGGAGTGCA
211081 GTGGCATGAT CTCAGCTCAC TGCAGCTCC GCCTCCCGG TTCAAGAGAT TTTCTGTCT
211141 CGGCCTCCCA AGTAGCTGGG AGTAAGGGGG CATGCCACCG CGGCTGGCTA ATTTTGTAT
211201 TTTTAGTAGA GACAGGGTTT CACTAGGCTG GTCTCGAACT CCTGACCTCA GGTGATCCAC
211261 CCGCTCGGC CTCCCAAAGT GTTGGGATTA CAGGTGTGAG CCCTGTGCC AGGCTCTGCT
211321 GTATATTTAA AGTCTATTT AGCATTGCTT CTGCTGTG TTATGCGTGA TTCTTTGAGT
211381 TTTCTTTGA ACCAGTTATA ACATCTTACT TACTTCTCC ATTAATCAAT GAGTTAAATA
211441 AAATCTTTGT TGTATGTTTA TTTTACATTT ATATGAAAC CATGAATTTA CCCAATTAAA
211501 AAAATTATCC TTAAATTAT CTGTACTGT ACATTTCCCA TGTATCCCT ATAATTCTG
211561 ATTAATGATT TTATTACATT GGACCTAGCT TATTTACAAT GAGTACATAA ATTTATTGTC
211621 TCCAGTCTTT CCTCCATTAT CCCGTCTACA TATCCACT GAGTAGATTC ACTACTCAGG
211681 AATCTTGGAC ACCTTCAAGT TGCCAAACAT GCAGTGTTCA CTGGACATGC TGTGTTCTT
211741 CAGAATTTGG GCCTGCTTCT CAGCACACT ACATCTGCTA TCAATGACCC ATGGAAGTT
211801 TTTGCCCTGA GCAAGCCAGA GTCCTGTGA GTTCTTCCA AATGCTACAA GTTCACTTTT
211861 GCTATTTTTT CCGATGAGAT AAAATTTTCC TTTTGTACT TCTACAAATC ATAGTCATTT
211921 TTCAAGGGAT AGTTCAAGTA TTGCTTCTT TCTGGGACCT TCCCAAATTA TTATTTCTC
211981 CTCTCAAAGT CTCTGTTTTA TTTATGTTCA TCCTCAAATC TTGATTCTCA CATGAATCAT
212041 ATACCTTGTA TTATTTATAG TTTTTTGAG TGGGTAAAT ATTTTCATATT TTATATTCTT
212101 TGGCTCTCTA CTTTATAGCA TGATGCCAGA TATTTAGGG CCTTATTGCA TTTATTTTTT
212161 ATTTTATTTT AAAATCTATT TTATTTTTTA TTATTTATT TTA AAATCTA TTTATTTTTA
212221 GGTAATATT CAGGTAATAT AATTTATGTA ATTATTTAGG AATTTTAGGT AGTTATTTTA
212281 AAATAATCA AATTATTTAT TGAGTTATAT CAGAAGAATG TGATCTTATT CATTTGTAAT
212341 ATGTGTTTTA GGAATCAGT TCAGCCAGGG CAGACCATGA TTCCCAAAT TGACTTTTCT
212401 TTTTAATTAG GCACTGATTT TGGTTAAGAG TTCAGTAAAG TTTGTGTGT GTGTTTTAA
212461 AAATCTTTG ATATAAGAGT CAAGATGTTA CTCAACTTTT ACTAGAAGCA AAATAGAGGA
212521 AGTGCTTTCA CAGATGAAAT ATCTCTCAAT GTTTTCTTCC ATTTACTTCT TCTATTATT
212581 CATCTATATA ATCAATTTCT TTACCTCTTT TCTTCATTTT TTCTGTTTTT CTCTCCTTCT
212641 ACTAAGACAA GCAAATTAGG GGTATAATTG GTTATTTGGG AAGGTAGGAA GAATATAGAG
212701 AGAAACAAA ATCAATATTT TATACTAGGG TCTCACTAAC CTCAAGCAAC TCTGACTGTA
212761 AAGTAGATTT TCATAATAGG ACTTCTTGAC AAAGAGTTTT CCTATTTTTT CCCCAGGCCT
212821 CTGTGTATCA ATGGAGCCCA GAACTCAGG GTATCATCTT TAGCTCCATC AACTATGGGA
212881 TAATACTGAC TCTGATCCCA AGTGGATATT TAGCAGGGAT ATTTGGAGCA AAAAAATGC
212941 TTGGTGCTGG TTTGCTGATC TCTTCCCTTC TCACCCTCTT TACACCCTG GCTGCTGACT
213001 TCGGAGTGAT TTTGGTCATC ATGGTTCGGA CAGTCCAGGG CTTGGCCCAG GTATCCAGAT
213061 ACTTTCTCAT TCTTGGTGGG ATCCAGATTT CTGAATTTCTA CAAAATATCA AAGGTCTTAA
213121 TGATTTTCAT TTCAGGGAAT GGCATGGACA GGTCAGTTTA CTATTTGGGC AAAGTGGGCT
213181 CCTCCACTTG AACGAAGCAA GCTCACCACC ATTGCAGGAT CAGGTAAGTG TGCACAGATG
213241 GGTCATAGCT TTGTCATCTG TTCCATCCCA CTGTGCTTA TCTTCTATGA ATCAAATGGT
213301 TTGGGAAGA GAGAGAAAA GTACTGCTGA AAAATTC AACATAAGAC ACTTGCATCA
213361 CAAATAGGAA AGATGCATCT GTGCAGTAA GACATTGAAG CTTAGAAGTA GAAAAACCA
213421 TTGTGAGCTA GGTTCAGCT CAGAAAAGCC TTAGTAGTCA GAAAAGCCTT AGTAGTCAGA
213481 AAAGCCTTGT CGGAAAAAGT TTAACCTTT AAGAATTGCA CACATGGAAA AAGATCAAGT
213541 AAGCTATATA TACACCATCT TAGCAATGAT TTTGAAGTGA GAATTAAGGC TACCACAGCT
213601 CCAGGTGGTA AGGAGAGAAA TCAGGCTGGA AGAGTTTGAA GTTTCTGTAT TATTCTAAGC
213661 TCTTACTAT TCTATTATGA GCTCATTAAT TCTCACAACA ACCCTCTCAT ATAAGTACCA
213721 TTTAAATTC TTATTTTACA GAGAAGGGAG TTAAGGAAGG TGGAGATTAA GAAATTTGCC
213781 CAAATACAAA TAGCCAGCAG GTGGTAGGTC TGAGATTTAA GCCCATGCAG ATTTTAGCCC

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213841 CAGAGCAGAC ATTCTCAATC ACTATGCTAG ACTGCCTTTC CATGGTATGT GATCCTACTC
213901 AGGCCTCTAC AGCTTTATCA TTGCTGTTCT CCCCAGCCTG TCGTGCTGAG AGTATATACT
213961 CGAAGAGCAG AACTAAAATT CCATCCAGCT TCTCACTCCT AGGTCCACTA CACAGCTGCA
214021 TCCTGCAGAC TTTTACCTCA AGCAACCTC CTGCGTTCTT GCTTCCTTCC ATCATAGTTG
214081 TAACCATCTC CTCTATTTGC AAATACTATC TGCTGATCTC TCTCTTCTAG ACTGGTTTCT
214141 TTCAACCTTC TTCCCACCAA AACCAAGTTA GCTTGCTAAA ATAAAGATGG CACATTTTCT
214201 CTCACCCGCT TGAGAATTTT CAATGTGTTT CTTTATGCTT ACAGAGTAAA GCTTGACCTC
214261 TTTATTGTCAT GAATACAAAA GTTCTTAGCC ATCTGGCCCC AACCTTGTTT CACTCAACTC
214321 CCCTGTGCAA GCATGGCTCC AGTGGCACTG GACATTGGCT GCTCTCCACA TAGATCTGCA
214381 CTGCACTTCC CTCTGGCTCT GCTCCCGTTA GTTTATATGC CTGGAAAGTT CTTTGCCCTC
214441 GTTCCTTGTG CCAAAATTC ATCTATCTTA TTGCATAGCT TATGTAAAAA CTTCTTAAAC
214501 CTTTTTTTTT TTTTTTTTTT TTTTTTTT AGACGGTGTC TCACTCTTTC GCCCAGGCCG
214561 GACTGCAGTA GCGCTATCTC GGCTCACTGC AAGCTCCGCC TCCCGGGTTC ACGCCATTTT
214621 CCTGCCTCAG CCTCCCGAGT AGCTGGGACT ACAGGCGCCT GCCACCATGA CCGGCTAATT
214681 TTTTGTATTT TTAGTAGAGA CGGGGTTTCA AGCCAGGATG GTCTCAATCT CTTGACCTCG
214741 TGATCCGCCC GCCTCGGCCT CCCAAAGTGC TGGGATTACA GGCGTGAGCC ACCGCGCCCG
214801 GCCAAACTT CCTAAATCTT ATAATTATTA TCAATTTATC CTCAGATATA CTTCCACGTA
214861 CATTGTAGTT TTATTATATT TATATTTTAC ATCTTTTTTT TCAAATTTCA GTTTGGGACC
214921 CATTAGTGAG TCATAAAATC CATTGAGCGG GTTAAATCA TTATTTTAAA AAATGAATAG
214981 AATAGAATAG AAATTGTTGG AGTGCATTGG ACATGGTAAA GTTAAATATC GATTTCATGAA
215041 ACCATCGTTT GAGGCATATG TGTGTGGTTG TATGTACAAG TGTTTATGCA TATTGGTGTG
215101 TGTGTATGT TACCCTGTAA AATGCATTTT TTACTATAGG TCTCTGTGAA ATATGTGTCT
215161 TGTGTTTTTT TAATGTAGAC TTCCAAAGCC TACATGGCAT TTCACTAGTG ACAATCAATT
215221 TTATTCACAT TTTTCTCTCC AATTGGACCA GAAAGCTCTT GAGGGCAGGG GCTGTATCTT
215281 ACCGATTTTT GTAAGTCTTT CATTTCTCTG CCTAGCCTC ATATTAGATC ATGCAAGAAT
215341 GCAACTGTAA TCACAAGAAA ATGCTAATGG GCTGTGATAG CAGAGAGTTA CTGTGACAAA
215401 CTAAGGGATT TAGATTGGT CACATTGGTG TTGAGGAGCC ATTGAAGAAT CAGAGAGTGT
215461 GTTACTATTA TTTGTTAATT TTAATTATAT CATATTACTT TACTGGGGA AATCTGTGAG
215521 CTATTTTAGA AATAAATACT CTCATTGCCC AATAATTCTA AGTCTGCCAC CTCACTGTTG
215581 GGACATTGTT TAGGGAGGCC ACGAAGTCTC AGCCTTTGAT ATTTTCATAA GTGTTTTTCT
215641 CCCTTTTTCC TTTAGGGTCA GCATTTGGAT CCTTCATCAT CCTCTGTGTG GGGGGACTAA
215701 TCTCACAGGC CTTGAGCTGG CCTTTATCT TCTACATCTT TGGTGAGTCA CTTTCTCTTA
215761 AATCCTAACG CCTCCATTTC CTGAGCATCC ATTTTGGCAC CTACACCACC CACATCTTTC
215821 CTATATGAAA GAAAATGTCC TTTATCAAAT GGAAGATGAT AAAAAATGTC AACGGTTGGT
215881 ATCATTTTTA ATCTAGTCAC ACAACCTGAT TAACACCTTC CTGGTGGTTC TGGGAAGCCA
215941 CACGCACAAG GTAGAGGAGT TGAATTTCA CATGGCACCC ACCGACTTGT GATGCAGTCT
216001 TGTCTTCCA TATCAAGCAC CTTCTGCAGA ATCTCTACCA CCACATCTGA AGTGCCTGCT
216061 ATATGCAGTT AAGATGTCAA AGATAGTGAA GTACATTTTC AATGTGTCTT CATATTTTCT
216121 TATAATTATT ATTTCTGTCC AAGATGCCTT TCACCTGTTT TCTACCAAGT TAATCTTGCA
216181 AAGTTCAATT CAAATGTTCC CTTCCCCATG GGCCCTTCCA GGGCTTACCC TATCAGATTC
216241 TGGCATTCTC TCCTTTATGA TATTTCTCTT CTAGGTTATG TTGGTGTGTA ATTATTTATT
216301 TCTCCTTTTC TTTCCACTAG ACTGTGAAAT GCTTGAGGCA AGGAATCCAT TCTATGTTTT
216361 CATCACTTGG GTGTCATCAT GGTGCCTGAT TTTTAGCTTT AAAATAAAAG AATCAAGTAA
216421 TCCAGTAATT AGAGGGGATT TAAAGAAAAC TAGTCCTCAG AATCTTTTAA CATAGAATGT
216481 TCTTCAAATA AGGAATTCCA ATAATAAGAC AATTTTCTAC ACTTGATTTT GTTTTTATAG
216541 CCAAATGGTG TCATTAAATA TAGTCCTGGC CTGAATGGCT TTCTCATTA TATGCTAAT
216601 TATTTTGGTT TGTACATGTT AACCAGGTAT TGTACAAAAA TATTTCTTTT GGGGAATCCAT
216661 AATGGATGTA TGGCTTGAAT ACAAATAATA CTGTCTCTTG TAAGTGCAAT GGAAATTTTT
216721 CCCTGCCACA TGATTTTATG GAAGTTTGTG TCGTGTATGT ATGACTGCAA ACCTGACTAT
216781 TCAGATCTTC CGCAACAAGA CAACTTATGT GTGCATTAAG AAGTTGCTGC CTAATAACAC
216841 TAACACTGTA ATCATTTGGAG ACTTTAAAGT AATTAATCAG CTATGCAATG CCACGCTCCT
216901 GTTATCTCCA GAGGGCTCTG ACATTGACAA ATGGTGGCTT TCTATTTGAG ACGTAATATC
216961 TAAAAAGCTT TAACAGGTTT GTAGAAGGAT TGAAAGAAAG AATGGGAACA TTTAGGTCCT
217021 TATGGTAGAA TAAGCATTA TTAGTAGTGT TGTAGAAGGG AGAGGCATGC CACTTCAGAG

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217081 GAAACTTCCT TCCCCAGTA AACAAATCTA CCTAAAACT AATTTTATCC CTTCTTCCCA
 217141 GGTAGCACTG GCTGTGTCTG CTGTCTCCTA TGGTTCACAG TGATTTATGA TGACCCCATG
 217201 CATCACCCGT GCATAAGTGT TAGGGAAAAG GAGCACATCC TGTCTCACT GGCTCAACAG
 217261 GTACAGTGCA CACCTTGATC CTGTGGCCCA TGACAGAGTC TCTAGGGCAG GGTGTGGATC
 217321 TCCTCTGAGA GGCACCATCT TGGCTGCTCT AATACTCATG CTGATTAGAT CTTTCTTTTC
 217381 AGCCCAAGTTC TCCTGGACGA GCTGTCCCA TAAAGGCGAT GGTACATGC CTACCACTTT
 217441 GGGCCATTTT CCTGGGTTTT TTACAGCCATT TCTGGTTGTG CACCATCATC CTAACATACC
 217501 TACCAACGTA TATCAGTACT CTGCTCCATG TTAACATCAG AGATGTGAGT TTACTTCTTA
 217561 TACTTCTACG AAAATGATAA TGGTAATAAG GAGAAACAGT TCTGTGTTAC CTATTACATT
 217621 CTGGCTTTTAC ATATAACCAT TAATTTAACC TTCACAATGA CCTTGAGAGA GGCATTGTGA
 217681 TAATTCCCTT TTCACAGATG TGAAACAGG AACTTAGAG GTGAGATAAC TTGCCCCAGG
 217741 TTGCACAATA CTAAGTGATA GAGCTGCTGC AGCATCCATA TTCTTAACCA CTATGCTATA
 217801 CTACCACACC AGCTGATTCC AAAGCTTCTT TTAGAAATAA TATTGCTGGG CCAGGCATGG
 217861 TGGCTCATGC CTGTAATTCC AGCACTTTGG GAGGCCGAGG CAGGCAGATC ATGAGGTCAG
 217921 GAATGCAAGA CCAGCCTGAC CAATATGGTT TACTAAATAT CATCTACTAA AAATACAAAA
 217981 ATTAGCCAGG TGTGGTGGCA GGCACCTGTA ATCCCAGCTA TTCAGGAGGC TGAGACAGGA
 218041 GAATCGCTTG AACCCAGGAG GTGGAGGTTG CATTGAGCCA AGATCATGCC ACTGCACCTC
 218101 AGCCTGGGCG ACAGAGTAAG ACTCCGTTTC AAAAACAATA AACCCAAGAA ATTAATATTG
 218161 CTTTTATCTG GAGCCCAGAG TGATGCAGCT TCTGGCCCTC TTATCTGAGA CAGTGTCTTT
 218221 TTAGTGTGAA AAAGGATGCT AATTTTCCCC CAAACAACCC ACAGTATCAT GGGGGTAAGT
 218281 TAATGGCTGG TCTGTGTAAC TGACAAATTT TGGTGTAAAC GTATCTCTAT AACTACTCTG
 218341 TATAAACTTC CTTCTTTCAG AGTGGAGTTC TGTCTCCCT GCCTTTTATT GCTGCTGCAA
 218401 GCTGTACAAT TTTAGGAGGT CAGCTGGCAG ATTTCTTTT GTCCAGGAAT CTCTCAGAT
 218461 TGATCACTGT GCGAAAGCTC TTTTCTCTC TTGGTAAGGA TAAGCGTGTG GGCCCATTTA
 218521 ACCAATCCCT TTTCTGCACA TGGTCTCAGA GGGTTCCCTG ACAGCATGTC CTCATTGCCC
 218581 AGGGCTCCTC CTTCCATCAA TATGTGCTGT GGCCCTGCCC TTTGTGGCCT CCAGTTACGT
 218641 GATAACCATT ATTTTGCTGA TACTTATTCC TGGGACCAGT AACCTATGTG ACTCAGGGTT
 218701 TATCATCAAC ACCTTAGATA TCGCCCCCAG GTAAGAGCTC TACCTGTTTT TTCCCTCCT
 218761 CCAGACCCCT CCAGAGGTGT TAGACCTCAG TGGTCGCCGT GAAACTCTTT AATGTTACTG
 218821 ACATTGCACT AATGGCAGAA TGACAAATAA CTACAAATAT CTGTCTGTGG CCATTTTTAG
 218881 AACAACAAT GTGGCATTTC TAGAACAACA ATTTCCAATC TTGGCCAGTA ATCATTTTGA
 218941 CAAAAACCTT CCAAGCTTC CCTAACAGAG ATTGAACTGT GTATGCTGGG AAAAGGCCCA
 219001 CACACAGGTG ATTTGGAAAA GTTTCATGG TGTGTTTCAT ATTAGCTACC ATATATATAT
 219061 ATATATATAT ATATATATAT ATACAGTCAC AATAAGCCAG CTCCTGTGCC AAGACTTGCC
 219121 ATATATCAAC ACATCTAATC CTCACAGTTA TATTAGGTAG GCCCTATTGT TATCCCCATT
 219181 TTATAAGGGA GAAGGCTGAG GCACAAGGAG GTTAAATGGT GTGACTATGG TCACATAAAG
 219241 GCAGAGCCAG GATTGGGACT GGGGGAGTCT GGCTTTGGAG TCTGTGTCCT GCCCGTTGCA
 219301 CAAACTGGCT TCTCCACTGA GCAGCCGGGG TAAAGAAACG TGGTTCCCAG AGAGACTGCA
 219361 TTGCTCCCTG GTTATTGACT TGGTAGATTG GTAATTTTCAG GTTTGGCAAA TAGACATTGC
 219421 CCTGAATGTC TTTAGGTGAA TGAAAACTG CATTAAAGCA AATGACTTTG CCATTAGAGC
 219481 TGAATTGCAT TAAAGTTGAG TTGCTGCAGA AGCTGTAGGT GGCTTTCTAT ATAAAATCAT
 219541 TTATAAAATC ATCTTCCCAC AGATATGCAA GTTTCCTCAT GGAATCTCA AGGGGATTGT
 219601 GGCTCATCGC AGGAATCATC TCTTCCACTG CCACTGGATT CCTCATCAGT CAGGTTGGGC
 219661 CAGTTTATTG AACATCTTCA AGTGGCAGGT ATTGTTTTAG GTGTGGAGA TACACACGGT
 219721 GCTCTAAAGA TCTGGATGGC AACACAATTA CTCTATTTAC ATGAGCCTCT AAATCAGACT
 219781 CTGGTAGGTC AGATTTCCCA GAGGAAGAAA AATATAAGCT TATTTTCTCA AGATGAATAG
 219841 ATGTTAGATT GATTAAAATG AGCTGTTCCG GTGCAGAAGA CAGCACGTGT GACTTCTTAG
 219901 AGGTACATGA GCATGAAACA GTTCTTAGTT ATGACCAGAA TGAAAGACAC ATGTCAAGGA
 219961 ATAGCAAGAG ACGAAGCAG AGGGGCAAAA GAAGATCATG AAGAATATGT TCAGACTAAT
 220021 CCAATTTTTA AAAAATCACA AAAGGAAAAC AAAGTGTCTT AGGCCAGTTT AAAGATAATT
 220081 TAATGTCTGG AAACAGATCG GCTGTGAGAC ATTGCAAGGA GGCTTGCTCG GTGTTTGAA
 220141 ATGCAGGCTC ATGAGGAAGA TGAAAAGACA GACCCAGGCA GGGATGGAAG GACTGACGAG
 220201 AACCAACTTA CAAAGAGAAG TTTTGTTTTT ACTACATTTT TATGTGATCA AGTTCCAGG
 220261 TTAATATTG ACTAACTGC TAGGAATCCA CTGTGACTAT AATGCTGGAA ATGACTTAGT

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220321 AGGGCTTTCT GAGGAGGGTC ACACAGAAGA CCAAAGAGAA CTCATGTTGA ATTGAGATGG
220381 GTTGTAGTGA TAGTTGTCAA CAGCCAATAC AGAAACAAAA AAAACACAAA CAAACAGCAA
220441 CAACAACAAC AAAAAAAAAA AGAGAAGACA CAAACACAAT GCCACAATGC CATTTTAGGC
220501 ATAATTTTAA ATGAGTAATA TTATATGTTG AAATCCAAAT TTTCAGAAAA ACATTAGTGT
220561 ATTTTATTTT TGTTTAAAGA AATAACCATC TCAACTCAGA ACCCCATGTG CATTTTGGCC
220621 ATTTTGTTC CAATAGTTTC ATAACTTTT TTAAGTAACT ACTGCACATT GTTCTTATA
220681 TTCCTTGTGA TCAACATTGC AATACACAAC TGGGAGGGCT ACTAGAACTG GTGTAGAAGG
220741 AACTTGTGAG ATTGATCATT TTCTCTGTTT TTTACATCTA GGATTTTGAG TCTGGTTGGA
220801 GGAATGTCTT TTTCTGTCT GCTGCAGTCA ACATGTTTGG CCTGGTCTTT TACCTCACGT
220861 TTGGACAAGC AGAACTTCAA GACTGGGCCA AAGAGAGGAC CCTTACCCGC CTCTGAGGAC
220921 ATAAAGTTAC AAACTTAAAT GTGGTACTGA GCATGAACTT TTTAAACATT TTTTACTTCT
220981 CTCCATATTC CTGACCATAG ACTCAGCAGT TCTTAACTCT GGCTGTGTGT TAGTCTTCCC
221041 TGGGGAGCCT TTATAAGACA CTGATACTTG GGACCCACTC CAGAGATTCT GAATGAATTG
221101 GTCTGGGGTG GAACCCAGAT ACTACTAATT TTTAGATACT CCTTAGAGGT TTCTAGCATG
221161 CGCCCCGGGT TGACAACAGC TGGACAACT TGAAAAGTCA ATTCATGTGG CCTTTGAATT
221221 TTCCTCATTG GAAAGTACTA AATAAATAAA AATTCATGTG AAAATGATCA CTGATAAATA
221281 TCTTCATGGT GGGGCAGGTT ATTGGATGCA GAGAAGATCT GCTCGGAATT GTAGCCATAT
221341 GTTACAGATC TCAGCACCAG TCGGAAGTGT AAAGCTATAA TCCCCAGAAAT TAAAGTTTTT
221401 ATTATTTTTT ATACATTGTA AAACATAGAC GTTTATTTAT GTGATTAAAT TCTATTAAAA
221461 TTTACATGCT AAAATAAAAT AGACCATTTT CAAATTATTT AGATCCAGAT ATTTCCATCA
221521 GATTAAACAG ATATTTATTT ATCCTAGCCC AATTGCAAGA GATTAATGAT GAGAAAATGA
221581 CCAATACAAG ATTAAATAAA TGAGGTTAAC TTAGAAATCA AGGACAGAGA AGATAGAACT
221641 GGAAGGCTTG TATTGTGAGA AGAATGAATG TGAAGGAAGG CAATGTAGAC ACTTCCAGAA
221701 GGGATAGCAA TATAGTTTAG ACCATATAAT GAAAATTGGA GAGAGATGAC AGAGACACTT
221761 TCAAGTGAAA TGACAATTTA TATGGGGGAG AAAAATATTG AAGACATAAC AAGATGAGAA
221821 AAGGCATAGA AATGTATCAC ATACAAGGCA TAGAAGTGTA TCACATACAA GAGAAGTTCC
221881 TTTTGAGCGT AGAAAAAGAT AATTTAACCT TCTTCATATT TTTCTTACTT TCCAAGATA
221941 CTCAGATAGG CAGCGTCAAC TCTAACAGGA ATTAATTTGG CTCCTAACAC TTAAGACATA
222001 TCCTTTAGTT TGTCTCTCA CACAGAAGT ATTCTGGTTT TGCCACAACA TGTCTAGAGA
222061 AGAAGTTCCC ACCATATTTT AAATCTTATT AAAAACTGC TTGGACAAGA ACCTTGGGTT
222121 AATTCAGCAG ATGAAGAGAA TCTCCTAATG CAAATCAATG GGTATTTTTG AGCAAGTTTT
222181 TCAGAAAAAC AGAGTGTGAG GCCCTGAGGG TGGTACTAAG ATGAGAACAT TGATTTTGCC
222241 TTCATGATAT TGACAACACA AAGAGGAAAG GGGGTTTGCA GAAACTAAA AGAAGAAGTA
222301 GAAGAAAAAA GAAAGACATA GTATAATAGG TAGTCAAATT ATGTACAGAA AAAAGAGAAA
222361 AAAAAAACAA AAAAGGGTGG GGGCAGACA ACCCAACTAA AAAATGGGCC AATGACTTGA
222421 ACAGGGACTT CATAAAGAG AAAATGTAAG TGGCTCCTTA ACATATAAAA AGATGTTCAA
222481 CTTCAATAGT CATTACAGAA ATGAAAATCA AACTACAAT GAAATACCAC TATAAATTA
222541 ACTAATGGAT AAAATGAAAG GAGATGAAA ACAAAATGTT GCCAGACATG TGGAGCAACT
222601 GGAACCTTCA TACGTTACGA ATGTGAACTT TGGAAAGCTG CTCGGCAATA TCTCCTAAG
222661 CTAAATGTAC AATTCCAGTG ACTCAAACAT TTTACTTAGA AATGCACATA TACATCCATA
222721 AAACATGTAC AACAAATGTT ATAGGAGCAC TATCTGTAAT AGCCTGAACA GGAAGTTGTC
222781 TGTTAAAAAA AGAATGAGTA AATAAACAC GGTCTATTTG TATAGCAATG AGAATTAACA
222841 GACCCCAATA TATAATAGAT GAATGGGTCT CATAAGCACA ATATTGATTA AAGGAAGACA
222901 AAACGCACAT TCTTTTAAAG GTTTATAAAA TACTTTTTAA AAACAGCTAC AACCAATCTG
222961 TCCTGTTAAA AATCAGTGAG CGATTTCCCT TGTGCAGGGA TGGGGGTTGT GGCTGGATGG
223021 ATGGTACTTA AGAAGTGCTC CTGGGGTACT AGAAATATTT TATTTCTTGA CTTGGATGTG
223081 TGTTTACTTT GTGAATATTG TACATTTATG ATTTGTGCAC GTTTATGAAT GTAGAAAATA
223141 AAACAGAAAG CAAATTCAAA GTATCATCCT TTTGAGAGCT TCTGCTCTGA CTTGCTTTT
223201 ACCAATGGAG CAGTTGGGAA GGGGTCTTGG TCCTTCGGTC CTTTGCTTTT TTTTTTTTTT
223261 TTTTTTTTTT TAGACAGAGT CTTACTCTGT CGCCCGGGCT GGAGTGCAGT GGCTCGATCT
223321 TAGCTCACTG AAAGCTTTGC CTCCCGGGT CATGCCATTC TCCTGCCTCA GCCTCCCCAG
223381 TAGCTGGGAC TACAGGCACC TGCCACCATG CCCGGCTAAT TTTTGTATT TTTTAGTAGA
223441 GACGGGGTTT CACCATGTTA GCCAGGATGG TCTCGATCTC CTGACCTCGT GATCCGCCCA
223501 CCTGAGCCTC CCAAAGTGCT GGGATTACAG GTGTGAGCCA CCGCGCCCGG CCCCTGGTCC

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223561 TCTGCTTTCA TGTTCCTTCTT GGTCCCTGTTT CTCCTCCTCT TTTGTTGGAA CTTCCAGTAT
223621 CAGAGCAGGA AGGAAGGCAA TGGGTCAATC GATGCTGTCA GCTTTTGGAT CAAACTGCAA
223681 GTTCTCAAAC AGCAAAATTA ATGAGCTCAG GCTTTGAAGA AACCATGACC CTGAAAGCAT
223741 CAGTTGCTTC CAATTGCATC AGTTGCCACG GGTGATAAGA ACAATGATGA CTCAGAATGC
223801 CTAGGTTTTT CCAGCAGCTT CTCTGAGGTT TTCCCAGCAG CTTCTCTGAT TGATTCCTGA
223861 CAGATGACTT CGGTGTGTCA GACTTTCAGG GTATCTTTCC TTATGTGATG GTTTGAGGAA
223921 GAGTTACCAT TCACATTCCCT AATGGCTTCA GAATAGATGC AATTGTGAAC TGATAGGAAA
223981 CATTTCTAAT TCATCTCCCC TCCCCATCCC TAAAGGATTG TTTCTAACAA TAGTCATGAA
224041 AATTAATTCA CTTTTCTCAA ATAGTTTATT GTCATCTACC TAATGATGAG ATGACTTACT
224101 TTTTCTCCTT GACTGTTAAA TATTATGAAT TATATTAATG TATTTCTTAA TGTTGAGCTT
224161 TCCCTTGAAT ATTCTTTTGA TGTACGACAG AATTTGATTG ACTAATAGTT TATTTAGGAC
224221 TTTGGCTGAT GTACTGATAT ATGAGATTGG CTCTGTATGC ATACATGTGT TTTGTGTATC
224281 TTTTTTGTGT CTGGATATGG AGCTTATGCT GATTTCAAAA ACAAGAAAGG AGAAGATTCC
224341 TTTTTCCCCA TTAATCTGAA AAAGATTGAC TAGAATGGAA TTTTTATAAT TGCTGTTGTT
224401 ATTTGAAAGC TTGAAAGCAT TGGTTTGTA AAATCATGCA GGCTGAAAGC CATTTTGAGG
224461 AGACTTTGAT AACTTTCTCA ATTTCTTCA GTTACTGGTC TTTTAAGGGG TTTTATATTT
224521 TTCTTTGATC AATTTTGACC ATTTATGTTA TCTTGAGGGA TCATCTATTT TACACACTAT
224581 TTAAGTATA TTTGCAAAAA TTCAACTGTT TTATCAGGCT ATCTTTTAA TAATATATTC
224641 ATTTTATCTA TATCTGAGGT TTTAGCTTCT TTGTACTTCT GACCCAATTG CATGTGTGCT
224701 TCTTTCTCC TTCATTAGAC TACTTAGTCA TTTACTAATT TTAAGAATAG CTGTCTTTT
224761 ATTTATTTAC TTATTTATTT TTGAGACGGA GTCTACTCT GTCAACCAGG CTGGAGTGCA
224821 GTGGCGCGAT CTCGGCTCAC TGCAACCTCC GCCTCCCGGG TTCAAGTGAT TCTCCTGCCT
224881 CAGACTCCCG AGTAGCTGGG ATTACAGTCA TGCACCACCA TGTCTGGCTA ATTTCTGTAT
224941 TTTTAATAGA GATGGGGTTT TGCTATGTTG GCCAAGCTGG TCTCAAACTC CTGACCTTAG
225001 ATGATCTACC CACCTTGGCC TCCCAAAGTG CTGGGATTAC AGGCATGAGC CACTGCGCCC
225061 AGCCCTGCTT GTCTTTTAT TTTATATTTG ATTAGCTTTA TCTTTTATCA AGCTTATGTC
225121 CTATTTCCCT TTGCTTTACT TCATATAAAT TTTGTTTTGG ATAGTTTATT TATTTTTCAT
225181 TTAATTATGA AACAGGTAA AGCTTAGAGG AAAATTGCTC CTCTAAGTCC AATTTTGTGG
225241 GCAGATTACA TTTTGTGTG TTGTGCTCCC AAATTCATTG TTCTTTTAA GCTTTATTTT
225301 TCAAGTTAAT AACCTATATA GTAAAAAAGT GGCTGTTGAC TCTCAGCTTT TTTTTTTTTT
225361 TTTTTTTTTT GTAGATACAG GGATCTTGCT GTTTTGCTCA GGCTGGTCTG AAAGTGTGG
225421 CTTCAAGGGA TCCTCCTGCC TTGGTCTCAC AAAATGCTGG GATGACAGAC ATGAGACACC
225481 ATGCCTAGCC ATGTCTCTCT CCTATATAT AATAAGAAAA CAGACACACT GAGGCATCCT
225541 ATCATCTCAC TCTTGGTTTC ACTACTGTTT TCTGGAAGTT TTGCTCTGAC CTTTTGCAGT
225601 TAATGTATTA ATTTTGCAAT GAGTAGTTTC CATAGAAGAA TTATAGCATT TGCATTCTGT
225661 TGGGTATTAT ACTTTTCACT GTTATTTGAA CATAATTTGA GGGCTGAAAC CAAGATGAGG
225721 CAAGTGAGGT GCCCAGGAAG CAATATTTAA GGAGGCATCC TTTCTTAGGC TCATGCAAGA
225781 ACAGAATTGG CACATGAGAG TGAGTGCCTC CTTAATTTTG AGTGCTGGAC ACTTCTTGCT
225841 CACTTAGCAT ACCCTGAGC AATGAAGTGT TTTTGTGTTT GTTTTTTCAT GTCCATCCTT
225901 TATCCTTCTT CATCTCAAAA CATTTCAATG GAGTATTTT TTGGAGCAGT ACTTGATGA
225961 GCCTCTGAGT CCCACAGTAG CTGAGAATTT ATTTCATAGT ACTCTTTATG ATCACTGTGG
226021 AGCCTTAAAA CATTGTAATA TTAACCTAGC TGGGAACAGA AATTTGTTC CACAATTTGT
226081 CTTATTCAGA ACAGTATTGA CTTCCTGCTA GTCTCTTCTG ATGTCCAATA TGAGGAAGTC
226141 TAGTTAGCCA GCTACTTTTT GTAGGAGAGC TATGTTTAGG CTAGGTGCTA TAGGATCTC
226201 TTTATCCTGG AATTCCTTCA CCAAGATGTG CCAAGGTGTT AATCATTTTC TCTTGCTTTT
226261 TGGCTGGTGG TCTTAGAGTT TCCTTCGATT TTGTTTTATT TAGTGATTGT CCTCAATTTG
226321 TTTTCTTTAC TAAGAATCTC TCTTCTATTT ATCTGTATGG TAAACCTTG TTGCCATCT
226381 TTCTGGTTTC TGCTGACTTT CATTTTGGGA CCTTTTACTT TGCTTTCTCC ATGGACTTTT
226441 TGGTAGTGGA GGCAGGCAA CACTTTCCAA AGTCTTTCTC AATTTCCATC AATTTCAACT
226501 TATTTCTTAA AATTGCCTCA GAATGTGCCT ATGTCCACAA TATCCCTCCT TCCACTTAG
226561 AAAGGAAAGG CATCCACACT TTATTTAGGT GCAATGCCTG AAGTGTAAC ACTTCTGGT
226621 TGTCAACAAA GGAGTACTTC CAAATATTGG TTTGGGGATA ACCTGCTAAT GATTAACACA
226681 TTCACCTTGG CTCTTGGTTT GCCTGCTCCC TCTTCTTTA TCTGCTGTGT GTATTTTTTT
226741 TAATCACTGA GAATATGCAC AGTATTGTAT GTTTTATTAT AAGAGAGGAC TGGCCAGAGT

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226801 GGGGAATGTTT TGAATTCAGA ATAACCTGAAG CAGTACAGGA TAGGAACTCA TTCTTTCAAA
 226861 TGAAGCTGGC ATATTTTCCC AGAGCACCAA ATTTCAATAT ATATTTAAAA AACTTGATAT
 226921 GAATGATACA ATAAAGTGGT TAGAAGCTTTT ATTTAAATAA ACTTATGTCA TGAAATACTT
 226981 ATTCTAATTA TAGTCACTCT TCATCTTATT TCATCTTATA ACATGTTTAA TGTTTTCTTT
 227041 TATTTACAAA ACAATTTATT TTTTGATGAA AAGTTTTAGA AATCAAGTTA AAAATATTCA
 227101 AAGGAATGCC TAAAGTTTTT AAAATTCTTT TACATGTTGT ACAATCAAAA GAGTCTGAAG
 227161 ACCATTTAGC TATCCAAATT GTTTATTTTT AAGCAGTATC CCTTCTAATA TTTACTATTT
 227221 ATAATCCTTA AAAATTTGCC TTAGCACAGG AGAATTGCTT GAACCCAGGA GACGGAGGTT
 227281 GCAGTGAGCC AACACAGTGC CACTGCCCTC CAGCCTCGGC GACAGAGTGA GACTCTGTCT
 227341 CAAAAAAAAA AAAAAAAAAA AAAAAAAAAA GCCAAAAACA AATAAACAAA CAAAAAATC
 227401 CGCCTTAACA TTATTTGTTT ATTTAAAACT TTCTTTAATA CTACTAGTTT CCCTTTCTCT
 227461 TCAGCCCAT TGCATATTTT GATTTTATC ACTTGCTTTG TAGGACATAT GAGGTTTTTG
 227521 TTTTTTTTTT TTTTGGAGA TGCAGTCTCC CTCTGTTGCC CGTGCTGGAG TGCAATGGCG
 227581 CAATCTTGGC TCACTGCAAC CTCTGCCTCC TGGGTTCAAG CAATTCTCCT GCCTCAGCCT
 227641 TCCAAGTAGC TGGGATTACA GGCACCCACT ACCACGCCTG GCTAATTTTT GTATTTCTGG
 227701 TAGAGACGGG GTTTCACCAT GTTGGCCAGG CTGGTCTCGA ACTCCTGACC TCAAGTGATC
 227761 CACAATCCTT GGCCTCCCAA AGTGCTATGA TTACAAGCAT GAGCCACCTG CCCAGCCAGA
 227821 ATATATGTTT ATTTTGAGTC CTTTAACAAA GTCATAAGAA TTTTAGGAAT TCAGTTACTT
 227881 TCTTGAGAAA ATCTCTGAAA AGATGCCAAT AATTTGTAGC CAATTATATT GATTTCTCTT
 227941 TTTTCATATT AGAATTGTTT TTTAAAAAGT TTGTATGTGT GAAGATTTTT GCACTGTAGT
 228001 TAAAGAAAAC ACCTGTGTGT TGGTTAAGCC ATAAGTACAT GTATTCAAAT AAATTGAGGT
 228061 GGGGTTACTC TGAGAATCAA AGGAAAACCT GAAGAAACAG GCAGCCTCAA AAGGCTTAG
 228121 CTGTAGCAAC TTGCTCCATT GTTGAATAA ATAGGCTTGA ACTTGTATT TCCCTCTACT
 228181 CAACATTTAA GGTCTCAGAA GATAATATAA TTGGTGAAAT TTAAGTAAAG TGCTCACTCT
 228241 TTTGCTTTAA CAAACCCTAG AGAGCTGGTA GGCAGAGCCT CAACAGACCG TTTTAGCTTC
 228301 CAAAGGGAGT TCAGGACACC ATGATTCACG ACCACAATAC ATCACACATA ATTGAGAAAA
 228361 GATAGTTCCA CCAAATAAAG TTGAATGCT GACAAGAAAG GGTAAGAAAT CTTGGAAATA
 228421 AGTTTATATA AAATTTATTT TTTCTTTTTT TATTGTTATG GAATAGGACC AGTTCTACTT
 228481 AAGCCACCCA TTTGCCAAA TAAAGTGAGA ATCGTTTCTT TTGGGGACTC CTCTTTGTAG
 228541 CTCCAAGTGC CACTAACAA TCTTAGGACC TGAGCTATAA GCCAGGTGAT TTCAGTTAAT
 228601 ATGATCAATT ATTTCAITTA AATGGCTCTA ATGTGCAGAG GGAACGGAGC CACTCAGCAT
 228661 TCCCTGCAGG GAACTGCAGT GGCTTTTATC AACTTGAACA GCTAGCTTTC AACTGTTTTG
 228721 AAATCACTTT CAGGGTGGTC ATGTAGTTGC TTTTTTGAAA TCAGAAGATG ATTCTGCCTC
 228781 TTTTAATATG TGAATCCTCA GATTCAGAAA GTGCTCGCTA GTCTTAAGAG TGAATTACCC
 228841 TCAGTGGTCC AGCGCTTATG AACCACATC TAACCCTATC CCCTGGGGGA ACTATCAGAG
 228901 AAATTTGGTG CATGGACATA AGAGGAAGGC ACAGTGAAGC AGAGAGCCCC GCATGATGAA
 228961 AATCAGTGGA CAGCATCATT ATTTACAATC TTGTAATCAC CCAGGAGCAT GAAAATCCAG
 229021 GCCAATCTGG CACCATGAGC TCTAATTTTT GTTGGAGTTC TTGGAACCGA TTCTGATGAA
 229081 TGAATGTTTA GCCATTTTAG AGTGTGGCAT ACGTGGCTGC TGGCATAACG AGGTTGGATG
 229141 TAAACGGGCC TTTGCCCTCT CTTATGAACA TAGACAGGAA CTAAACTGTG TCACATAGGT
 229201 TCCAAATGGT GGCCTGAATA CTATTTACAA CTAAGGTACA ATGAAATTGA GTAAGTCTTT
 229261 TCCTCTTTTG CAGATACCAT CATTATTCAT ATATTCTTTC AAAGTTAACT ATTTGTATTT
 229321 GGTAATTTTT AATAGAAATG TAATAATTGC TTCTCAAGTT TAGTCTTTAG TCTTAAGGTT
 229381 GATGCTCTCC ATGTCCTTCC AAAAAAGGT ATGTTGCTTT TATTATATCC TCGCCTTCAG
 229441 ATGGGATTAT TCCATTTTGT TCTTTGTAA TATATACTTT GAGCCACTTT TTTTGTGGCT
 229501 CTGGGTGAGA TGCTATAGGT ACAATGACAA GTGATACGTG TGTGTCCCT GTCACAAAAG
 229561 TGGATAGCCT AAGTGGTGAC TTTTACCTCC ACTCCAAATA TATGTATCAC ACACAGCCG
 229621 TATGCCAGGC ACCACTCTAG GTGCTAGGGA TACAGCAGTA AACAGACAAA TGCAACCCCT
 229681 GCCCATGTGA AAGAGAATAA GACAATAAAT AAGTAAAGTG CATGTTATAT GGAGGTGGCA
 229741 AATGCTAAAA AGAAAAATTA AGCAGGCAAG AGGACTCATT GAAAAGATGA CATTTGGGTA
 229801 AAAGCCCATG TATATATGTT CTATTGGTTT TATTTCTCTG GAGAGCCCTG ACTAATACAC
 229861 AATGACTTTG AGAAGTTACT GGCTTTTGAT TTATCACACT ATTCGGAGTG CTGAGAGCCT
 229921 TCTTAGTGTG TATTCAGTGT TTTAAGAGAG CTTGTGGATG AATAATAAAT AGGACAAAAT
 229981 TTATCCAAAC TTAAGCCTTG CTTTAGGTAA AAGGGCTCCT CTTACAAGGT AGAAGGTTAT

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230041 TATTTGGCAT TTAAATCCAA CTGAAGACTA ATAAGACTAA TTAATTAAAA GTTTTTTAAAT
230101 CACAACCTGGG TGCAAAAATAA ATGGAAGTGC CATGCTCGCC AAGTGTGCAT GAGTGGTGTG
230161 CATGGGAGAC AGCACGAAGC TAATCCCACT CATCTTGCAG GTTGCTCCAT TTTTCTCCTA
230221 AAATCAGTAA GACAGAAGCT GGTCAGATTA TCAAGAGCCC TAGTTAAACA CAGCAGTAGC
230281 ATTTGGAAGG GGTTGCTCTC ATTAGGCAGT GCCTGACCAC AACAAAGAGAT GAACAAGCCC
230341 TGTATCTGAA GCCATCATGC CTAGTTATGG TCCCCCACTG TTCATGATGC CTGAAAGGGA
230401 GGCCCCCTGC ACCCTAGAAA GCTGGGTGGG TTCTACTGTC TGCTTTACTG CTAAAAACCC
230461 TCTTCTTTGG ATCTGGACTT TACCTCTATC TGATTTTTTT TTCTAATATA TGATTGGCA
230521 CTGAGTCTGT CACTGCTGCT AACTCAGCAG TTCTAGGGTC ATTGCCCCAT TGCCTCACAG
230581 AAAGAATTTC ATAGCTTCCA GCATCCTCTC TCCTTCATTA TACTTTGATT TCAGCATTGC
230641 TATTTTTTCT CTGGGTGTT GCAGCTCTCT CTCTCCTTCC CATGTCTTGT TGGTTTTCTG
230701 CTAACCTCTG CTTTTTTTCT TTTTTTTTTT TTGAGACGGA GTCTCGTTCT GTCACCCAGG
230761 CTGGAGTGCA GTGGCACAAT CTCGGCTCAC TGCAACCTCC GCCTCCCGGG TTCAAGCTAT
230821 TCTCCTGCCT CAGCCTCCCA AGTAGCTGGG ACTACAGGCG CTCACCACTA TGCCCCACTA
230881 ATTTTTGTAT TTTTAGTATT GCTGTCATCA ATCCACATGT CCAGAAGCAC CTAGAAACTC
230941 TAATTCTTTG TAGGTATCAA ACCCTAGGAC TCTTTCCTCT AATCACAATA TATAATCCCT
231001 GATTCCCAAA CACGGTCTTT TCATATACAT TTTCCACTGT ACATACTTTC TGACCTGGAA
231061 AGCTCTTACA CAAACACGCC CTCCCCTAGG AAGCCTTTAT AAATGTTCCC AGGAAGAATC
231121 AGTCACCCAA CAGTGTCTTT GTCACATCTT AGGTTCTACA CCTTTATTTG TTCTATCTGA
231181 ATGTAATCTC CCAGAGGGTG TTATCATCTT TTTTTTTGAG ATGGAATCTT GCTTTGCTGC
231241 CCAGGCTGGA GTGCAGTGGC ATGATCTCGG CTCACAGCAA CCTCCACCTC CTGGGTTCAA
231301 GTGATTCTCC TGCCTCAGCC TCCTGAGTAG CTGGGATTAC AGACGTGTGT CACCAACCT
231361 GGCTAATTTT TGTATTTTTA GTAGAGACAG GGTTTCACCG TGTGGCAAG GCTTTCCTCG
231421 AACTCCCAAA CTCAGGTGAT CCACCCGCCT CAGCCTCCCA AAGTGTGGG ATTACAGGTG
231481 TGAGCCACCA TGTCCAGCCC CATCTTTTTT TTTTAGTTTA GTTCTTAACA AATAGTCTGA
231541 CACAAAGTGG ATATAACAAT ATTTTGAATT ATGAATAACT AAATGAATAT TTCCAGATTT
231601 CCTGGTGCTC TCAAAGTTTT ATGTTACAAA AGAAAAACAA GTCTAAAATA CCTGCCTCAA
231661 GTTTTTATCT GTACTATGAT TTCAAACCAA ATAAAAACAA GGTGGGGTAA AAAGTGAAC
231721 AGGAAATACA TATAACTGAA AAATTTTGGT ATGTTAGTAT GATAATACTA GGTCAATTTT
231781 CCTGTTTCCC CAACTTCATT TTCTATAGCA ATAAAAAGAA ACAAGTAAAT GTATATTAAT
231841 TTAATTTAAA AGAAGTAGTC TACCATCTCT TCTGTTAAAA AGAAAAAGT ATTTTAAAAA
231901 ATTATCTCTG GAAGGATACA CAGGGAACAT TGCTCTGGTT TCTTCCAAGA GAGAAATGAG
231961 GAACTAGAGA GCATGGCCAA GTGGGGTTTT GCTTTTGTTT TTGTTTGTCT ATCTGTTAGC
232021 TTTTATTAT TTTCTTTTGT AGGTTTGAAT TTCAAACCAC ATAAATCTGT TACATGCTCA
232081 TAATAATAAG TTTAAATAA AACTTTTGGC TGGGTGCAAT GACTTACACC TGAATCCCA
232141 GCGTTTGGG AAGCAGAGGT GGGAGGATAC TTGAGGCCAG GAATTGAGA TCAGCCTGGG
232201 CAACATAGTG AGACCTGCC TCTGTAGAAA TAAACAAAAA TTAGCTGGAT ATGGTGGTGC
232261 ATGCTGTAC TCCTAGCTAC TTGGGAGGTT GAGGCAGGAG GATCCTTTGA GTCCAGGAGT
232321 TTGAGGCTGC AGTGAGCTAT AATCACCAC TGCACTATAG CATGGGCAAT AAGGTGAGAA
232381 CTTGTCTCAA AAAAAAAAAA AGGGGGGGGG AAACAAATAA ATAAATATAA ACAAACCTTT
232441 GTTTCAAAA TATGTAATAT TTAGCACTAA AGAATTCTGA ATTGTAGAGC TAAAAAGTAC
232501 TAAAAAGTTA ATAATTATTG TCTCCTTTAA AAGAATTGTT ATCAAAGTAT AATTTTTATC
232561 CAGAAAATCA TCCATATCAG CAAGCTAAAC TTTCTCAAAA TGACATATCC ATGTAATTAG
232621 CTCCCAGGTA ATTAGCAGGC AGCCTCTACT CAGGTTGAGT ATTCCTAATC TAAAAATTGG
232681 AAATTCAAAA TGCTCCAAAA TCGGCAACTT TTTGAATGCT AACATGATTC TCAAAGGAGT
232741 GCTCATGGAA TATTTTCAGAT TTTGGATTTT TGGATTTGAG ATACTCAGTA TAATGCAAC
232801 ATTCCAAATC TGAAAAAATC TGAATACTT CTGGTTCTAA GCATAAGGGA TACTCAACGT
232861 GTGTTAGCTA ATTAGACCTC TCATGGTCTC TTCTAGACCT CAGCTTCTTC AAGGTAACCT
232921 CTATCCTCAC TTCTAATAGC ATGAACTTTT CTGTTTTAGA ATAATTTGGA TTTTCAGGAA
232981 AGTTGCAAAG ATAGTACAAA GACAGTACAG GAGAGTTCCC ATATATCTTT CACCTAGCTT
233041 TCCCCATTG TTAGGATTTT ACATTATTAT GATACATTTG TCAAATATAA GCAACTCACA
233101 TTGATACATG AAACCTCTATT AACCAACCC TAGACTTTAT GTGGATTTCA CCAGTGTTC
233161 CACTAATGTT TTCTTTCTGT TCCAAGGTCC AATCTGGAAT ACCACACTGC ATTTTCTTGT
233221 CATATCTCCC TAGTCTTTTT TTGTCTGTGA CAATGTCTCA GTCTTTTCTT GCTTTTCATG

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233281 ACCTTAACAG TCCTGAAGAT CATTTGCTTT TTTTCATAA TTACACCGGA GTTATAGATT
233341 TTTTGAAATA ATACCACAAG GGCAAAGGGC CCTTCTTGTC ACATCATTTT AGGGAGAACA
233401 TGATATCCAC ATGACATCAC TGATATTAAC CTTCAATCATG TGGTTTAGGT AATGTTTCAG
233461 GTTCTCTAC TGCAAAGTGA TTTTTTCCC TTAATTTAGC CCACCTGAAC TTATCAATTT
233521 TGTCTCTTC CATGACTAAT ACTTTTGTTA TTATAGCTAA AACTTCATTG GGGCCAAATC
233581 TTAGATCATG TAAATTTTCT TCTATATTTT ATTCTAAAAG CTGTAAATGT TTGATACATT
233641 CTAAGAGATG TAATGTTTGA TACATTACAT CTAGTCCTTT GATTTATTTT TAGTTACTTT
233701 TGTATAAGGT GTGAGAGATG TCTCCAGTTT CACTTTATTA ACACATTGTG GTGTTCCAGT
233761 ACTATTTGTT GCTAAGACTA TCTTTTTTCC ATTGATTACC TTTGCCTTAG TTGGCAATAT
233821 TTTTGTGGT TTATTTCTAG ACTGTTTATC TCATTCCACT GATTTGTGTG TATCTTTTTG
233881 ACAAACCTGT TGATTACAGT AAGCTTTGAA ATAGTTTATT TTTTGTGTCA ACTTGACTGA
233941 GTCAGGGGAT AACCAGCTAT CTGGTTAAAC ATTATTTCTG GCTGTGTTTG TGAGCGTGTT
234001 TCTGGATGAG ATTAGCCTTT GAATAGGTGA TCCTAGTAAA GTAAACTGTC TTTCCAGTG
234061 TGGATGGCAT TATGCCACCT GATATTCAGG GTCTGAATAG AAGAAAAGGC AGAGGAAGGG
234121 GGAATTTGGG CCTTTTTTTC TGCCTCACTG CTTGAGCTGG GACATCTCAT CTGGTCTCCT
234181 GCTCTTGAAC TGGGATTTAC ATCATCAGTT CCTCTGGTTC TCAGGCCTTC AGATTCAGAC
234241 TGAATCATAC CACCAGCTTT CCTGGGTCTC CAGCTTGCGA ATTACAGATC ATGGGACTCC
234301 TCATCTTCCA TAAATGCATG AGCCAATTCA GTCTATGTCC TTGAAAACCTG CCCCACTGCA
234361 GATTAAGGCT TTTTCCACT AGGTGAAATA AAGAAGCTTG TTAGACAGAT TTCCCTTCAT
234421 CCAGTGCCCT CTCCTCTTTA AGTTACAACA CATTGGCTAC ACCTAAGTGC AGGGGTGGGG
234481 ATGAGGGTAT AGTCCTCTTG TTTGCTGAGA AGAGAACTGT ATTGGGAAAG CTCTAGAAGT
234541 GTTTGATACA TACATAAACA AGGCATGGTT TTTGCACTTA ATTTACATT ACATTTTTC
234601 CAGAAAAAA GGAATGTATA GGCATCACGT AACTGTACTA GCTGGAGTCA TTCTTCCTGA
234661 TTATCAAAGG TAAACAGTTA TTAATCCTAT ACCAAGATGT CAAGGAGAAG TACTTTTGGA
234721 ACACAAGGAA TTCTCTGGGA GTCCTTACTA CTCTCAAGCC CAGTGAAAAA GTTAATGAAA
234781 AACTATAGTA CCTTCCTATA AGCTGGATGA CTAATTACCA GGCTCATTTA GGAATTTGCC
234841 TTACCAAGTA AAACATAAGG GCAGCTGAGG TGCTGACTGA AGACAAATGG AGCATAGAAT
234901 AAGAGTAGTA AAGAATGCCA AAAATGCTGT CATGTATCCA TTGACAAAAG GAGCTATAAA
234961 GCCTTTAGGT ATTTTCACAC TTGCTCTGTT ACGTAAATGT ATGTGTGTGT GTGTGTGTGT
235021 GTGTGTGTGT GTG

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1 CACACACACA CACACACACA CACACACACA CACAAATGAG GTATATAAAG GGTCTCCTAA
61 AATGTCATCT GATATTTGTT ATTTTCATATT CTCAGATTTT TAATCCATTT AGGTAGGTCT
121 ATTTTAGATA GCCTTGTCTG AAACAGAGCT GGGACCTGAT GAGTGAAAAT GAGCTCACCA
181 GAAGAAAAAT CAAACAGGCA TTTCAGAGAT TGAGGCCAAG AAGTTAAATG TCTTAAATGG
241 GCAGAGCTTA GCTGCTTGAT GTGAAAAGAG ACCAGCGTGG CTGGAACAGC AAAGGAGAAG
301 AGCAGAAGAG GTGAACAGAG GCCAGAGATG GTCAGTGTAGT GGGCCCTTAA GTCATGGTAA
361 GGAGTATGGA GAATGAATTA TTGCATGTAT TGAATATGTA GGTGACGTGA CTCACAGATA
421 CTTTGGATTT GTAGAGATGA AGGAAATGTA GCAAGTGACA CTCTTAGAAT GTTGATTGTA
481 GTAAATGGTA GTGTCAGTTA TTGAACTGGG GAGAAGTGGG AGGGATAACA GGCTTAAGGA
541 GCACGTTTAT TCCTGTGTCT TGGAAGTGTT TAGGGTGAAA GACCTATTAG AGTTCATAAT
601 GGAGATGTCA AGTGAAAATG TGGCTACACA CATTTGCATT TCAGAAAAAA GGTGAGGCTG
661 GAGATGTAAA ATTGGAAGTT TACTGCATAT AGATAGTCTT TGGAACCGTA GTATTGATGA
721 AGCCATTAAT GAGACAGAAC AAAGACTAGG GACCAGAGCC AAGCTCCAAG TTTCTAAAAT
781 TTAGAGGATA GTATAGTCTG GTCATTTTGA GGTGAATACT TAATAACAGA ACAATTGCT
841 GAAGTGTAAT TTAGAGCCC TACACTTTTA GCTCTGACTA TTAACGAATA CAGGAAAGAA
901 TGGATATGGT TATCTGCCTG GTGTCTGTGA AATAATTTAA GCCAGGAAGA GATCCTCACC
961 AGAAACTGAC TATGCTGGCA ACTTGGATCT TAGATTTCCA GCCTGCAGAA TTGTTAGAAA
1021 ATAAATGTCT ATCGTTTAA GACACAGTCT GTAGTATTTT GTTATGGCAG TCCAGCTGA
1081 CTAAGTTTGG GTACCCAGGC GTGGGATGCT GCAACAACAA ATACCTAAAC ATGGGGAAGT
1141 GCGTTTGGAA ATTGGTGATG GGTAAGGCT GGAAGAGTTT GAGGTTTATA CTAGAAAAAG
1201 CCAATTGTGA AGGGACTATT GAAAGAAATA TGGACATTAA AGGCAATTCT GGCAGGCT
1261 CAGAAAGGAA GAGAGCTGGA CAGAAAGCTT CCATTTTCAT AGAAACTTAG ATTTATAACG
1321 ATCATGGATA GAATATTAA TATGCTGGTT AAAATATGGA CTTAGGCCA GGCGTGGTGG
1381 CTCACGCCTG TAATCTCAGC ACTTTGGGAG GCTGAGGGCA CAGATCACGA GGTGCGGAGT
1441 TTGAGACCAG CCTGGCCAAT ATGGCGAAAC CCTGTCTCTA CTAATAATAC AAAAATTAGC
1501 TGGGCATGGT GATGTGCTTC TGTGGTCCCA GCTACTCGGG AGGCTGAGGC TGAAGAATCG
1561 CTTAAACCCG GGGGGTGGAG GTTGCACTGA CCCAAGATCA CACCACTGCA CTCAGCCTG
1621 GGATACAGAG CAGGACTCCA CTCCCCCGC CACACACACA CAAAAAATAT ATATATATGG
1681 ACATTAAAGT CAACTCTTGT GAGGTCTCAG ATGAAAATGA GGGACAGGTT ATTGGAAACT
1741 GTAGAAATCA CTGTTCTTGT TACAATGTGT CAAGAAGTTG GCTGAATTAG GCTGTAGTGT
1801 TTACTGGAAG GAACTTATAA GCAGTAAAC TGGATATTTA CCAGAAGAGA TGTCTAAGCA
1861 AAGTATTGAA GGTGTGATTT AGGTCTCTCT TACTGCTTAA AGTGAAATGT GAGAGGAAAG
1921 AGCCGAAATA AAGAAGGAAT TTTTAAGCAA AACACAATCA GAACTTGGAG ATTTGGGATA
1981 GATTTCTCAA TCTATATTGT AAAAATTGAG AAAGTTTTTC TTGAAGAGGT ATGGTTGAAC
2041 AATGTTTTCT TTTTCTTTTT TTTTCTTGGT TTTATTTTTA TTTTATGTT TTTTGAGACA
2101 GGGTCTGGCT ATGTCATCCA GGCTGGAGTG CAGTGGCACA ATCTCAGTTC AGTGCAACCT
2161 TTGCCTTCAG GCTCAAGCAA TCCTCCACC TCAGCCTCTT AAGTAGCTGG GACTACATGT
2221 ATGCACCACC ACACCTGGC TAATTTTTTG TTGTTGTTTA TAGAGATGGG GTTTTGACAT
2281 GTTGCTTAGG CTGGTCTCTA ACTCTGAGC TCAAGTGATC TGCCCTCTC AGTCTCCCAA
2341 AGTGTGGGGA TTACAGGCGT GAAACACTGA GCCTAGCCTG AACAACCATT TGATAAAGAG
2401 ATAATGGGTG TGACCAAGG ATTTAATCAG CCATCTCAGC AGAAGCCAGG AAGAGAGATG
2461 GGATTATTCC AGCAGAGACA CTGCCAATTT AAATAACGT AGGCAGAGAA AACAGAAAGG
2521 AACAAAGGAA GGTTGTCGAC TTTTGAATT CTATAGAACA GGATCATAGA GCTACCTGGC
2581 TGTCATGTG TACTATTCTT TAAGAAAGG AAAGACTGAC CCACCAAAGG CAACTTACAA
2641 GATCACTAGG GCTGACTCTT TTTTGTTTTT TCTTGAGGCA GTCTCACTGT CACCCAGGCT
2701 GTAGGGCAAT GGTGTGATCT CAGCTCACTG CAATCTCCAC CTCCCAGGTT CAAGGGATTCT
2761 TCTTGCCCTA GACTCCCAAG TAGCTGGGAT TACAGGCTCT AAATCTGTAC CCTCCCGATT
2821 AGCGCTCCTG CCACCACTTG CCCAGCTAAT TTTTGTATTT TTAGTAGAGA TGGGGTTTCA
2881 CTATGTTGGC CAGGCTAGTT TGGAATCCT GACCTCCAGT GATCCATTCT CATTGGCCTC
2941 CCAAAGTGCT GGGATTACAG GCAGGAGCCG CCAGGGCTGC CACTTTGATG TCAGACTCAG
3001 AGAGTACAGA TGGGATAGGG TGGGGTGGG AACATGTAGT CAAGGCTGAC TCTACCTGTT
3061 TCAAAGATGC CCTGCAGAAC TGTGTGGGAG TCTCTCACAG ATGGCTGCCT GGGTGGGACC
3121 CCACCAAAGT GAAAGACCGA GACTTCAGGC AGGGCAGATG GAGTAGGCCA ACTACAGAGC
3181 CAGAGGTGAC ACTGAGACAC CACTGGGCCT GGAAATCAGG GCATCAAGCC AAAGAGGGTT

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3241 TTTCTTAAGA CCTAACAGAA TTTGCCTTGC CAGGTTTGG ACTTGATTAG GACACATTAC
3301 ACCTTCCTTC TTTCTTATTT CTCCATTTTC TAATGGGAAT GTCTATTATG CCTGTTTCAC
3361 CATTGTACCT TAGAAGCATG TAACATTTCT GGTTCACAC GTTCAAAGCT GGAAAGGAAT
3421 TTTGTCTCTG GATGAATCAC ACATTGAGCC TCACCCGTAA CCTGATTAG ATGATTTTTT
3481 AGATGACACT TTGAACTTTA GAATTGATGC TAGAATGAGT TAAGACTTTC AGGGGGCTGT
3541 TGGGATGGAA TAATTTTTTT TTTTTTTTTG AGACGGAGTC TAGCTCTGTC GCCCAGGCTG
3601 GAGTGCAGTG GCACCATCTT GGCTCACTGC AAGCTCTGCC TCCCGGGTTT ATGCCATTCT
3661 CATGTCTCAG CCTCCAGAGT AGCTGGGACT ACAGGCGCCC GCCACCACGC CTGGCTAATT
3721 TTTTTTTTAT TTTAGTAGAG ATGGGGTTTC ACCGTGTTAG CCAGAACGGT CTCGATCTCT
3781 TGACCTTCTG ATCCGCCTGC CTGGCTTCC CAAAGTGCTG GGATTACAGG TGTGAGCCAC
3841 CATGCCCCGC TGGGATGGAA TAAATTTATC TTGTATGGGA GAAGGACATA CATTTTGGCA
3901 GGTCAAGGAC AGAATGTTAT GGACTAAACT GTGTCCCCCA AAATTCATTT ATTAAAACCC
3961 TAAACCCAG TGTGACTGCA TTTGGACATA GAGCCTTTAG GGGGTACATA AAATAAAGA
4021 TCACAGGATA GGGCCCTAAT CCCATTGGGG CTGGTGTCTT TACAGAAGT GAGACACTTA
4081 GAGCTCTCTC TCCACGCAGG CACCAAGGAA ACACCATAACA AACACACAGT GAGATGGCAG
4141 CCATCTGTTA GCCAGGAACA GATTCTCACC ATAAACTATG TTGGCACCTT GATCTTAAAC
4201 TTCCAGGCTC CAAAACGTG AGAAAATGAA TTTCTGTTCC AAGCCTCTTA GATATGGAAG
4261 AAAAGATTCT GTTGTTTAAG CCATCCAGTC TCTGGTATTT TGTATGGCA GCCTGAGTAG
4321 GCTAAGACAA TGAAGGATGT GGTAAACTT TACGTCCCAA CCACATACCA AAGAGGCTGG
4381 AATTTAGCAT GCTTTCTTCT TTCAACTGTA GGCAATGTGC ACAAGTTCTA AATCCTAAGA
4441 CATGTTGGCT CTTTTACTCT GCCCAAACA CAACTCAAAC AAACAACGTG AATATAATAA
4501 CATCCAATGA AGTTCTGACA TTTCTTCAAC ATGAGTACAG TAATTCATG CCAGAGAATT
4561 CATTTTATTT TGAATCTAC ATGCCATATT CCAATTTCTG TTGAAGATGC AATGGTTATA
4621 TTTATCTTT TTAATATAGA TTTATCAGAC TGGGCGCGGT GGCTCATACC TGTAATCCTA
4681 GCATTTGAGA GGCTGAGGTG GGCATATCAC CTGAGGTCAG GAGTTTGAGA CCAGGCTGGC
4741 CAACATGGTG AAACCTGTCT TCTACTATAA ATATAAAAAAT TAGCTGGGTG TGGTGGTGCA
4801 TGCCTGTAGT CCCAGTTACT AGGGAGGCTG AGGTAGAATT GCTTGAACCT GGGAGCAGGA
4861 GGTGCAATG AGTGGAAATC GCACCAGTAC ACTCCAGCCT GGATGACAGA GCAAAATAAT
4921 AAATACATAA AATAGATTTA TCAGTTTATC AATAATATAG TTTTCTTTTC TAGGTGTAAA
4981 TATAGGTAAT GACTGTCTTT TAGTACATT TCTCATGATG CTCTCTTTAC TTGGTTTGGT
5041 ACAATATTAA GTATTGAAT AAAATAGAGA ATCCTGTGCG TACACATGAG CACTTATTCC
5101 ATTTGCTCAT CTCCAATATG CACGGGAAAT TCTCAAATTG CTAATAATCT TGTAACACAC
5161 ATGCATTATA TTCAACAGGA ATATATAAAT TTATAATTAT AATTTAGGAT CAACAGATGA
5221 CAAACCTTTA GAAGGTTTTG ATTTAACCTT AAAATATAAT TTTTAAAAA TTGGTTATAA
5281 AATTTCTAAT ACTTTCTTTT TGTGACCTC AAGGGGAAAA TATAATTCTT ATAAAAGTTC
5341 AAATGATTTA CAGAATACAA AAAGTGAATA GAGATGATGA ATGAATTAAG GGAAAGGATA
5401 TTGTACATA GATTGGGAAA TTTAAAAAGG GAAATTACGA TTGTTGATTT TGTGTTAAAC
5461 TGATCTGCTT TGTTCAAGAT ACCTTATGTA CCAAAAAATG ATTTTATCTC AGCCTCATAT
5521 CTCAGTAAAT TCCTGAGACA AACTTTAGTC CCTGGTGCCC AGGTGCCTTT GGTAATTGGG
5581 AGACCTCTAG GTTTAGCATC CTCATCCACT CGCCCCAAT TAAATAGTCC TCCCCAGGGC
5641 CATTGAGGCA AGGGAGATGA AAACCTGCTC AAGAGTTGGA ATCCAATTGA AGCTACCGAA
5701 ATTCATTGCT CAATAGATAA TTTCCCTGG AAGTAACTAG GGCTTTTGAA TATAATAGTG
5761 GGCATTTCAG AGTAGAAGGT AAAGTATTTT GGAGATGAGG AGACAGGACA GAGCTACGAG
5821 GAATGTCCTT TGCTCAGGGA CTAGGCTCTT AGCAGTACCT CTTAGGTAAG AACTGGTTAA
5881 CTGGCACCTT CTGTGTTTCT CTGAAGCTCC CTTTGCTTAG GGAAGTGGCT CTTAGCAGTA
5941 CCTCTTAGGT AAGAACTGGT TAACTGACAC CTTCTATGTG TCTGAAGCTC CCAGAACAAA
6001 CTGCCAATGA AATTTGGATT TTTGGAATAT AGTTTCTTTT TTGTTGTTAC TTTTGTGTTT
6061 GTTGTTTTTT TTTGAGAGTC TCACTCTCAC TGCAACCTCC CCCTCCTATA TTCAAGTGAT
6121 TCTCTTGCTT CAGCCTCCCG AGTAGCTGGG ACTACAGGCG TGCACTAGCA TGCCCAGCTA
6181 ATTTTGTAT TTTTGTAGT AGATGGGGTT GGTTTTTTTT TGAGACAGAG TTTCACTTTG
6241 TCGCCCAGGC TGGAGTGCAG TGGCAGCATC TTGGCTCACT ACAACCTCCA CCTCCGGGG
6301 TTCAAGTGAT TCTTCTGCTT CAGTCTCTG AGTAGCTGGG ACTACAGGCG CCTACAGGTG
6361 AACACCGCCA CACCTGACTA ATTTGTGTAG TTTATTAGA GATGGGGTTT CGCCATGTTG
6421 GCCAGGCTGG TCTCAAACCT CTGACCTCAG GTGATCTACC CACCTCAGCC TCCCCAAGTG

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6481 CTGGGATTAC AGATGTGAGA CACCAGATCA GCCTCAGAAG ACATTTTCTA TTGGAAAGAG
6541 AAAA CACTAT TAGCAACCTA TTAGTCTAAT ATTTAATACT TAATGTCTTC CTTAGTAATA
6601 AACCAACTCT CTACAACAAA GTGCTTCCTG GCTGCCTAGT CATTGATTCA TTCAGTTCAA
6661 CATTTTCTCA ATGCCCAACA GCCAAGTGTC TCCTGTATGC CAAGTTCTAT GCTGATTATC
6721 AGTATTTGAA TAAGAGGGGG TCTACATCTT AAGTACTGCT TAAGATGAAA GCCTCTAGGT
6781 TAACAAACTT AACACAATGT ATCATTCACT ACTAAATAGA CCGAATACAA AATCTTGTTA
6841 TTGGAGCCCA GAGAGAAGAA TTGAAATTCA AGTTTTCTCT CTCTCCTTTT CTCACTCACC
6901 ACAATAAGTC AGTTGCACCA AGTCTTGTAG CTCTTTACTG AGCCATGTTT TCACGTGTCC
6961 CTTTGTTTTA TTTGCCACAC CCTAAATAAA AATTGTACTG GCTTTTTTTC CCTGGGTTTA
7021 CAGTATTAAT ACATTGTCAA GATTTACCTC TTCGTGTAGA TTCCCTGGGG AAAATTACCT
7081 TTCTCCTTC CTTAAATTC TTCAGAGGTT AGAAAGCCAT TAGTAACATT CTGGTATGTG
7141 GACAAAGTTT ACCCATTATG TATGGATGTT TTACTCTTTC CATTTTCTG ACAATAACTT
7201 CTTAAGGAGG TGTGGTTATA GAATAGTCAG CTGTTATAAG TACTGTTTTT CTGGCCTTAC
7261 AACTTAAATT CTTTAAAGCTG TTTCTTAGTT TGCTCATCTC AAAATTCGGA ATAAGGATAA
7321 AACCTATCTC TTAGATTGTT GGATTAAATG AATTAACATA CTGGAAGCTC ATGAAATGTG
7381 CCTGGCACAC AGTAGTGCCT AATAAACCAT CTCTCTTATT CAGCCTGTTT TCTGATTTC
7441 GAATCTACAC TTGCTGAGCC AGGTTCTTTT CATTTCAAGG TGAGCAAAAG CATACAAGGA
7501 AGAGATGGAG GTAGGAAGAG ATTAAGCCCT AGGCCAAGGG AGCTGGAATC AAAGGCAATT
7561 TGGTCAGTGA ATAAAAAGGA TTCCAAGGCC CATAAGGCAA TTCTAACCTT AGGATCGAAA
7621 TTCTCGGACA TACAGGAAAT GCTGGGGGGG GGAAAATCCG GTCTTCTCAG CCCAAGAGCC
7681 ATGTGAAACC AGACCTTCAA ATCTGATGAT TCTCAGCCCA GCTGCCCAT AGAATCGTTG
7741 TAATTTAAAA ATACCCTCGG AAAATTCTAA TATGTGGCTA TCAAAGGTGA TCATTGTCTT
7801 TTATGCCACT TTGTTTTTAC CCAAATGGGA CATCCAACCC TTTTCTTTG AGAGTAGTTG
7861 TAGGGAAAGG AGGGGGTGGG GGGAGGGAAG AGCGGAAAAG GCTGGATCCG CCCCAGCCG
7921 GTGTCAGTAT CTGGGAAGTG GGAGGCGCGT CAGCAGTAAA CAGCTTCTGC TAGGATTATT
7981 ATCTCCTGCC ACACACTCGG ATTTGAAGGC TCCAAACGAA ACAATGCAA ACGCTTCAGT
8041 GGAGTTCCAG AAGCGTTAGA CTAAACGACT GGGTCTGTTT GGCGAGTCTG AGCAGCTGGG
8101 CGCAGATGCA TAGGCAAGAC TTAGCCCGCC TAGACTTTTC TGCCCACTTA ATTCCGATCA
8161 AAGCAGAAAC CGGCCGGGCG CGGTGGCTCA CGCCTGTAAT CCCAGCACTT TGGTAGGCAG
8221 AGGCTGGCGG ATCACCCTGAG GTCAGGAGTT CGAGACCAGC CCGGCTAACC TGGTGAACT
8281 CCGTTTCTAC TGGTGGCGGG CGCTTGTAAT CCCATCTACT AGGGAGGCTG AGGCCGGAGA
8341 GTCGTCTGAA CCCGGGAGGC GGAGTTTGTA TGCAGTGAGC CGAGATCGCG CCACTGCATT
8401 CCAGCTTGGG CAACAGGAGC AAAACTCCGT TTCAAAAAAG CAAGCAACA AACAAAAAAA
8461 TGCAGAAACC GAGATCCGGA AGAAACCTC GGCGAGATT ACAGAATCCA GGAAAATAGG
8521 TCTCTAGAAA TTTGTCCATG GTCCCAGATC TCCATTCTT GTGGGTGGGG CAGCTGTTAC
8581 CAGATCCCTA GAAGCAAAGG TTTTTTTGGG GGACCGTGTC TCACTGTTGC CCAGGCTGGA
8641 GGGCAGTGGC ACGATCTCGG CTACTACAA CCTCCGCCTC CCAGGCTCAA CGCACTCTCC
8701 TGCGTCAGCT TCAAGAGTAG CTGGGAGTAC AAGGTATGTG CCACCACGCC CAACCTATT
8761 TTTTATTAT TATTTTATT TAGTAGAGAG GTGTTTCACC ATGTTGGCCA GGTAGTGTG
8821 GAAGTCGTGA CCTCAGGTGA TCAGCCCCCT CGGCCTCCCA AAGTGGTAGG ATTAGAGGGG
8881 TGAGCAGAAA GCAAAGGTTT TTGAGTGGCC ACAGGCCCCA CTCTATTTC TTTTCTGCCT
8941 GTAATGGCAA CCTAGACGCT TGAGCTTCTT AAAATACAAG AGTAAGTTGC ATGTCAGGCA
9001 CCGTTCTACA TTAGGGACAT TAGTCTGTTT TACAGACACC TTTCAACTCC CTGGTTAACT
9061 TTTAGGTAAT ATACTCTGCA CTTTAGCAGG AATGGAACCT ATAACCTCA CAGAATTAGG
9121 AAAGTGAGGC TGCCTACAGC CTAAATTGAG AAAAAAATAG ACGGGGACT AGTCGGAGGA
9181 CCAAACAAGG TTACCAACAC GTTAGAGTTT TGCCTTCAAT TTACATTTT AAAGTAATCA
9241 CAACGAAGTG TTTAGATCAC GAGGCATCCC TGCATGTAAA CTGTTAGGCA CTAACATATG
9301 TCGATCTTAC AAAGCATTAA CTAGAATATT TCTTTAGAGT ATGATAGTAC GTAACGTACC
9361 TACTATTACA TACAAACAGA CCAACCTTTA GTAACAGCGC TCCCCAAAAA CCGAAAAGCA
9421 GTAATACGCT TTGCTCAAGG TTGGCATAAA ATTAACCTTAC CTTAGTGCCT TTTTCTCTC
9481 TACCTACAAG CAGTGAGGTT AGCTCTTCTT TTGAAACGGT AGGGGGGCTC TGAAAAGAGC
9541 CTTTGGGTTT GATAGCGTTT CCGGGAGCTC AGATACCTGT CAAATCACTT GCCCTTGGCC
9601 TTGTGGTGAC TCTCGGTCTT CTTAGGCAGA AGCACGGCCT GGATGTTAGG AAGGACGCCG
9661 CCCTGAGCAA TGGTCACCCG GCCTAGCAGT TTGTTGAGCT CCTCGTCGTT GCGGATGGCC

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9721 AGCTGCAAGT GGC GCGGGAT GATGCGAGTC TTCTTGTGT CGCGAGCCGC GTTGCCGGCC
9781 AGCTCCAGGA TCTCGGCGGT CAGATACTCT AACACCGCCG CCAGGTACAC CGGCGCGCCT
9841 GCCCCAACCC GCTCTGCGTA GTTGCCCTTA CCGAGCAGGC GGTGCACTCG GCCCACC GGG
9901 AACTGGAGAC CAGCGCGAGA AGAGCGGGAT TTCGCTTTGG CGCGAGCTTT GCCTCCTTGC
9961 TTACCACGTC CAGACATTGC AATCAGACAA AAATCACCAG AACCGAGCAG CTAAGCTCAC
10021 GAGAAAACAA ACAAATCAA GAAATATGTA AAACATGGCC GCTTTTATAG GTAGTTCCTG
10081 GGGAGTAAAT CCGACTTTTT GATTGGTCGG TAGCAAATGC TAGTCAGATA GCCAATAGAA
10141 AAGCTGTACT TTCATACCTC ATTTGCATAG CTCTGCCCCAC GGATGACAAC TGTGTAGTTT
10201 GTCTTCCAAT TAACTAAGAG GTACTCTCCA TCCCTCATTA GCATAAAAGC CCTATAAGTA
10261 GCAGAAATCC GCTCTTTACT TTCGACACAT TTCTGGTGT TTAAGATGCC TGAGCCAGCC
10321 AAGTCTGCTC CCGCCCCGAA GAAGGGCTCC AAGAAGGCAG TGACCAAAGC GCAGAAGAAA
10381 GATGGCAAGA AGCGCAAGCG CAGCCGCAAG GAGAGTTACT CTGTGTACGT GTACAAGGTG
10441 CTGAAACAGG TCCATCCCGA CACTGGCCTC TCTTCCAAGG CCATGGGCAT CATGAATCT
10501 TTCGTTAACG ACATATTTGA GCGCATCGCG GCGGAGGCTT CCCGCTGGC GCATTACAAC
10561 AAGCGCTCGA CCATCACCTC CAGGGAGATC CAGACGGCCG TGGCCTGCT GCTTCCCGA
10621 GAGCTGGCCA AGCAGCGCGT GTCGGAGGGC ACCAAGGCCG TCACCAAGTA CACCAGCTCC
10681 AAGTAAACAT TCCAAGTAAG CGTCTTAACA CCTAACCCCA AAGGCTCTTT TAAGAGCCAC
10741 CCAGATACCC ACTAAAAGAG CTGTGGCCAG ACGCCAAATT TTATTTGGCG GCGGAGGGGT
10801 ATTAGAATGT AGGAACTGGA GAGGGGTGGG GACAAGTGT GCAGCTTAGA GAGGGACAAA
10861 GGGTCTTGAA CCCGAAAGAA GCCAGCCATT AAAAATGGGT TTGGGGTCAA TTCGTGTGTC
10921 TTAAATTTAA AATGGGGACA AGCGGCCATT TTGCTAACTC GCGCTTCCCG GAAGAAACCG
10981 CAGGCTCGCT TAGGTTTCAG ACCCAGCTGT CTGTCCCTGT CTACGTCGCC AGGATCAACG
11041 GTTGCCGTAA TGTATAATT TCGCCACAG CTCTAGCCA ATAGGCTGTC CTGTCAATTT
11101 AAATATTAAC CAATCGAGGG AAAGCTGTTT TGAGACTCTG ATTTACATG CGGACCGGAG
11161 TGGGAACCTG GGCAGTAAC GCCTAAGGAA GGAATCCCC TCTGTTTTCG TGGCGCACAC
11221 CTTCTGTAGT TACTGAAGGG TGTGTCTCCT GGGTTTCCAA CTGCCCCGGT AATAGTCTTT
11281 TAACCTAATA TCGCTCAGTT TTGATAACAA CACTAAGGCA GTACAGAACT AAAGATGTAA
11341 GCACTGCGCC AGATGTTGCT TCATACATCT TATTCTATTC AACTGGTTTA TTCAAGATTC
11401 AAATCAAATC AAATTTTGCT TGAATCCAG TGCTCAGTCA GCCATAAATG GTGTGTTGCC
11461 TGATTGAAAC TTAAATCTC CGTAGGGGGC TTGTAACATG CAGAAAAGTT TGAAAGTTGC
11521 TTTAGGAGAA GCCAATCTT AACTGCTGGG TAAATTGACA AGCCTTCGAA CACTGAACCTG
11581 AAGGCCAGTA AGGACTAGGC GCTGGGTGGG GGAGAATGAA GAGGAGACGT CATTAAACTT
11641 AGCACATACA CTGTGTCTCC TAGAGGACTC TCCCTTCCTA GACAAGTCA GGCCGCTTTG
11701 TGGCCTGGGA AATTCACAT TCCCTTAAGT ATTTTACTCA TGGTCTTTTC CAGGTAAGA
11761 TTTTAAGATG AAGGGTTAGA CGTAGTCTAC CTATCTTTTT ATTCAAGTCT AGAACACGTT
11821 TTTAGCACCT AGAAGTTTGC TTTCTCCATT AAAAACC GGG AATATACAAT AAATAAAATT
11881 AGTGTTAAAG CAGATTTTAA CAAACTTAAA TACCATGTAA TTTAGGTTAC AGTTACTTAA
11941 CATAAGGACT GTGTGATCTT AAATCTGCAA TTTCTTTCAC ACCTGGGAAA TAAACTAAGG
12001 CCTGTCTTTG GTGCCAGACA AGGCCTTATA CTTGAACACT GCTGTGCAAT CACAGGCTGC
12061 CTTGCCTAGA TAACTTATCT GAGAAATCT GATGAGAAAT GAAATTTCCA GAGTCCCTCA
12121 CAAGTAAATT TTTTTTCTT TTTTTTTTTT TTTGAGACGA AGTTTCTCTC TTGTTTCCCA
12181 GGCTGGAGTG CAATGGCGCG ATCTTGGCTC ACAGCAACCT CCGCCTCCCG GGTTCAGCC
12241 ATTCTCCTGC CTCAGCCTCC GGAGTAGCTG GGATTACAGG CATGCGCCAC GACCCCTGG
12301 CTAATTTTGT ATTTTATAGT GAGACGAGGT TTCTCCATGT CCGTCAGGCT GGTCTCGAAC
12361 TCCGGACATC AGGTGATCTG CCCGCCCTGG CCTCCCAAAG TCCTGGATTA CAGGCTTGAG
12421 CCACCGCGCC GGGCCTAAAT GGTTTTTTTT TTTTCTATGC CTCTAATGGA CCTGGTCACT
12481 TATTTCCATT CAGACTGACC GCTCTCCTAC CTGCCAACTA ACTAATCAGT GTAACCAAAA
12541 TCTGCAAAACA AAATTCAGTA TTCTTTCCCC GCCTTTTCCC CTTTCTCTTA CATAGATTAT
12601 GTTTTTGCCT GTGTTAGATG AAATAATCT ATTGCTTGTT CTCTCTCTG TACAAGTACC
12661 CAGTAAGCAA ATTATTAAT TCTTGGTCT TATTTCTGA ATTTTCCACC AAGACAGTGT
12721 TTATGTGAGT CATACAATAA GAACCAACAG AAATGTGTGT CTTGGAAACA GGTTGTCTAT
12781 CCTGGACCC TTTGAGTTTT CTGTCACTT TCCTTTGGCT TTTGCATGCT AAAAGTTTAT
12841 CGTCCGCGTT TGTGTGTTTT GGTTATCTA ATTGGACTTG GCTGATTGGT TGCATATTGG
12901 TGGCAGTAGT AGAATTTGAA TTCTGGTTTT CTGGTCACAT CATTAGTGA TTAGTCAGTG

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12961 GAGAGGACAG GAAATCTGGT TTATTTATTA ACCTTTTTTTT GGGGTGTTTT TGTTTGAAGA
13021 TGTTGATATT CTCTGTGAGG ACACAGGGTT AGAGTTGGTG TTTTCTTTT TGACTTTACA
13081 TGGGATTTGA TGTTTTGTGC TTGTATGCCT CTTTCCACCT TCCAAAACCT GTCTTTTTTG
13141 AGTCCAAATA GTTGTGCGATA TCTGCAAAAC CAGTATTCCT GTGTTAAGAT GATATGAATA
13201 TAAAATGGCT GCCCTGTTAT AACTTTTGAC TTAAAGAAAG TGTTAGGACT AACAGGAGAC
13261 AAAAAGGAAA TCAAGGAAAC CAAATGTCTG GTCTCAATAA CTGCTATGGC AGAGGCTCTA
13321 CAGCTTATTA TTAATTTTAG TAATTTTACA TTATTGCCCT TTCACGTTCT TTAAGTAAGG
13381 TTAGAGGACA GAAGAAACAT AATGTTGTGA CAAATTGGAC TATTGAGTCA GGAAAAAATA
13441 AGAGTGCTTT CAATATCTGA ATAAAACAAA GATTTAATAT TTTCTAAACC TTAACGAGTT
13501 TATTGTAAGG GATGTGATGC TGGAAACTAG GAAACTAGAA TTTTCTTCTA AACTGAGAAT
13561 CAGAATTATT CATATTCTCA GCAGTGGTGC CACCTGAGGG ACTTCTGATC TTAATTACAT
13621 ACTTTTATTT CTTTAACTGA TCAACATGCT AAATAGATAA CCTATGGCTC TGTTTTTACC
13681 CACTTTAAAT TCTGTTCTAT TAGCACGGTT AGCTTTCCCTA ATTGGCAATA AGATTGAGAC
13741 TATCTTTT TTTTTTTTGA GACAGAATTT TGCTCTGTGG CCCAGGCTGG GGTGCACTGG
13801 CACAATCTCG GCTCACTGCA ACCTCTGCCT CCAGGGTCT AGCAATTTTC CTGCCTCAGC
13861 CTCCCCAGTA GCTGGGATTA CAGGTGCACC ACCACGCTG GCTAAITTTG GCATTTTATG
13921 TAGAGATGGG GTTTCGCCAT GTTGGCCAAA CTGGTCTCGA ACTCAGTGA TCCACCTCGG
13981 CCTCCCAAAG TGATGAGATT ACAGGCGTGA GCCACCGTGC CCAGAAAAGA CTATCTTATT
14041 TTATGAATTT AAATAATTGT GAAATTATCC ACTTAAGGGA ATTAATAAAT TATAATGTAA
14101 TCTTAAATTT TAGTTGGCTT ACATAAAGAC TTAAAATACA TCAATTTAAA TAAAACTCA
14161 TTTGTCTAAA AAAAAATCAA AAATTTTCTT TGTGCTTAA ATGTGCTACC TCTTTAAGTT
14221 CTAATTAAGA GAAAAAAGT TTAAGTGTGA GTTTCATTAG TGGTCTTAGT TAACAGCTTA
14281 AAGTATTTT TAAAAAAT ACTTCACAAT TTTTAAATAA CTTAAAAATA TTAATACCTC
14341 TTTTATTAGG TTTTTTAAT AAGGAAAATA TATAATACAT CTAATCAAGA TTATTTTGTG
14401 GACAAATTGG CTTAATAATT TCATTTTAAA AATGGCTTCT TTATCTTAT ACTGTAAAAA
14461 TAATATTAGC AGAATATTAT AGTATACACA AGTTTAGGGT TCATATTCTA AAAAAACAAA
14521 ACAAAGCTA ATTTAAGCTG CATTACTAA ATTTCTTCCA CTAGTTGTAC TGGTTACATG
14581 AGTTAATATC ACTTTATTTA TTATCTAAA ATTGTAAAT ATTCATTGAA CCAATTTAAA
14641 TGATAATAGA TAATGTCATT TTTAAAAATG GAATTAATTT TTATGTTACT AATTATAAGG
14701 ATTCAATGTG TGAGCTTAAG TACTGAGTTC ACAGTGTATG ATAACCTTAA GAATTTAGGT
14761 GAATATTATT AAATTGAGTA AATTAATTCT CAATCTTTGG ATACCTGGAC AATTTCTAAA
14821 TTGGAGGGTA CAAAATACAA ATCACAAGAA ACAGTGTAGT TTTATGCAAA TAACATTTTT
14881 ACACAGTTTA GAATAACCAT TGATAAACAG ATAAGAGAAC ATATGATTGC CTTAGAATAG
14941 ATACTGTTGC TTTGCGCACT TTAGATTTGT AAATCATGTA CTGTATACGT GTGGCGTAG
15001 AGGACCATGC AGGTTTTTGA TGACTGCCTC TGTTTTCGTC ATGCTATGC GGAACACAA
15061 TTGCCTGCTT TGTTTAAGGG CTATGGTTAA TCCAAACAGC TCTGACTCTA TCAAGTACTA
15121 TAGCTACAGA GAAACACAAG TAAGCATTCG AGATAATGAC TACCTTGAGC CTTTACTTAT
15181 TTAAAAAGTT GTTACTGTTT GTTAATGTGG TACATTCAAT TTACTATGGA TTGTCACCTC
15241 AAAATAAGAC TTCAATCTTT TTCTTATTTT TATATAGCCA TGATTTATAT TCATATCTTA
15301 ATGTAATAAC CAATCTTCTC TGACAACATT ATAACAATGC TGGAACCTCC ATTTTCAGTA
15361 CTTCAAACAA CAAATACTGC TTTTATACTT CAGAGCAGAT GGATATGTGC TTCCAGTGT
15421 AAACACATTT GGAATCTCAC TGAGAAATAC ACTATCACTA AAAATACAGT TCTGAGATTC
15481 ATTTAAAGAC CTCCAGAATT CTGGAAGTAG GAAGTTTCTT CTTCAAAGTC TACAGAGGAA
15541 GACGAGGTCT GAAATAGACA GCTTCTTCTT TCTTTTACCT GTGGTATTAT TCTGTTTTGT
15601 CCTTTTCTCC ATTATCTGTC TTTCCAGTGA TGAAATTTTG ATCTGGCCCT CCCAAGTATT
15661 AAAAACAAG CAAATAACA AATCTCAGTT ATATTTTACT AAGATATTGG CATGCTAACT
15721 TTTTGCAGGT TTGTAACAAG GACCTTTATA ACTTGACTAA AAGTTCCTAA ATAAGAATAT
15781 TTTTACTAGAA ATTTATTTCT GCCTGTGGCC CACATTTGAG TCAAAAATAAT CAATTAGGAA
15841 AAATGAACCT GTTTAACTAA AGTTGGCCAA ACTGATCTTT GAGACCTATT CATCTAAGAC
15901 AAGCCAATTA AATCTTTGGA GACAAATTTG ACTTTAAGGA ATTCTTATAA TATTTGTAAT
15961 TACCCCTATA ACTTTTTTTT TGCCCTACTT CTGTGCTTCT CTAATATGCA GATTATTAAA
16021 TGTTGTTACA AAGCCATTGT CAAAAAACA AAAAACAAAA AACTAAACAA ACTCACATGG
16081 TTAGACTTGC TCCTTTATGA GATATTTTTA CCAAAAATGG AGGAGTTGAA AAACCTCTGGT
16141 GCCAGAAATC GTGAAGACAT GGCCTACCTA ACTTGAAAT GTTGGTTGTC AGTGGAAT

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16201 ACTACACAGA GATAGCCATA GTGCTGCACA GCCAATCTTA AGTGTTTCTA GAGAATCACT
16261 AAATTGTTTCT AGAGAATCAC TAATTGTTTT CTTTTAACAT TCTTGGTTTA TACAAGAAGA
16321 GAGTATCCAT ACTAACTCT TTTCTACTGA AAATAATGTG CAAACATAAC ATCCTATTCC
16381 TAGACAGTTT GTAGTTTTTT TCTCCCATT CTATTTTATA AATCATCTTT TTAAAATACT
16441 TTGTTGAGTG AAATCAGTCC ATTGCTTGAT ATACCTTGAG CACAAGTAAA TAGTATGCCA
16501 AAAATTAAAT GTCTTTCAGT CACAGTTTGA CAAACTCAAC TACCCTGAGC CTATAGAGTG
16561 GTAATAATTG CCCTACTCAT AAAGATGGGG TGAAGATTAA ATGAAATAGC ACCTATAGAA
16621 CACTAGTTCC AGACGTGGTA TCATGCTAGT AAAATGGCTG CACAGCACTG CTCAATGATG
16681 ACAAAAAGTG AAGCTTCTGG AGACAGACTC CAAGTTTGAC TCCCAGATCA CCACATATAA
16741 GATGTGGGAC TCTGAGGCAG GTCATTTAAT CTCTCTGTGC ATTAGTATCC TTCTCTATAC
16801 CTTTACAGTG ATGGTAATAG CACCTACCTT CTAGAAGTAT GTGAAGATT AAGATCCCTTA
16861 ATGCATATAA ACCACTGTGT TTACTGCTGT TTGACAAATT TTATTTATAA CCATCTTTAC
16921 GCTCCTAAAA GGACTTGAAG CAGCTTATGA CTGAAGACTT TGGTAGGAGT TGGCCTTCTA
16981 TAAATTATAA GAATTCATA AATTATTGA TATGAAAATG CCAGTTGATC ATAGTATGTT
17041 TACCGGGGTC CAACAGGTTG AGAAAAATA CACTTTTTTT CCCTGAACAT ATGAAATTAG
17101 CTCTCTAGGC ATATTCCTAA GGACTTAAAG AATGATAACT ATCATTTCTC TTAAATCTTC
17161 CAGATTTGGA AGGATATATA TATTCAGCAC ATTGACAGAC AATCCCAGTA GTCCTAAATT
17221 AAAAGACATT AAAAAATAGT GAACTTTTC CTACCTTTAG CCTGTGTAAT CCTGGATGAC
17281 CAAGCATAAA ATTAATTTGA GTAGAGTATA CCACTGTAAC ATTTCTGAA AGGTATTCTA
17341 GGCTCTGAGT AATTTCTTTG GGGTCTGAAG ATCAGTTTGA CATATCCTCA AGTATCATGA
17401 GTTCATTATA ATTAAGAAAA AGGGAGTAAA TCTGGAGAAT GAGCCACTTT CTTACTACTC
17461 CTTGACCTCA GTTCTTTTTT TCAGAGACAG GGTCTCACTT TGTGCCCAG GCTGCCAGGC
17521 TGGAGTGTAG TGGCGCAATC GCATCTCATT GTAACCTCCA CCTTCTGGGC TGAAGCCATC
17581 CTCTGCGCTC AGCATCCTGA GTATCTGGAA CCACAGCAGG TGCACACCAC CATGCCAAGC
17641 TAATTTTTTA AAAAGTTTTT TGTAGAGATG GGGTCTTACT ATGTTGCCCA GGCTGGTCTC
17701 AAACCTCTGG GCTTAAGTGA TCCTCTGCC TCAGCCTCCC AAATTGTTGG GATTACTAGT
17761 GTGAGTCACT GTACCCCGCC CCACCTCAGT TCTGAGGAGG AAAAAATAG TAATAATAAT
17821 GGGACTTTGG TTTGCTGATT TAAAGATTCA TGTAACTTA TCATCCAATG CGCAATTTGT
17881 AGAATAATTA ATAGAGACAT CTGGTCTCAT GTTCTACAG TTGCTCATGC CTTGATAGTA
17941 GATCTCCTTG CTGCTGGCTC AGAAGGGTAA AAGAGCAGAA ATGATGGGGC TTCTCTCATT
18001 CTATGAGGAA ATAGACCTAT GTAGAGGAGG CTACCTGTGG TAAAACCTTA TCCTCATCAC
18061 TTAAAATTCT AGGCTTATTC TCTGACCATA TCAAGTTTTT AAATGGTAAA AGAATTGGAT
18121 TCAAGAGAAA TATGAATAAA CTTTTGTTTT CACTTTTCTC CCTCCTCTCC CCCCATTCTC
18181 CCTTCCTTTA TTTCTTGTC CTTAGTTTTT TTTTCACTTT TTTGTCTACT ATTATTGCC
18241 CAAACTCAAC TGTAGGCTAG AACAAAAAAA AATTGAAAAT TAAAATGTGC CCCTTTTGT
18301 GTTAGACTTG CTTAAACAAT TGGGGTAATG AACCTTGGAC ACTAGATTTT AAAACACACA
18361 CATTTGAGCT TCAGTGCAC GAAATAAATA TATTTTAAAC AATTAAAAAA TAAAATTGCA
18421 TGTTTAAAAA ATCTGCAGAG AACAAATACAC GTTGTGAGAT CTTGAATGGA AGGAAAACCTG
18481 CTAGCCTCAA GAGTGGATCA AAGATGCTCA GCAGGCAACA GAGTAAGAGC ATGTTGGAGG
18541 GTTTAGAGAG TGTGCTCAGG GTTCTAGGCT CTAAAAATCA GACAGTCCCC ACGGCCTGGC
18601 CTTGTCGCT GTATCTTCTT TATGAAAAAC ACTAAGTCTT TTTCTCTACT GGATAAATT
18661 TTATCCTTCA AGTTTAGATC AAATGGAAC TTAGGACACT GACTAGGTTA CATTCTCTT
18721 TTAAGAGCGT ACAGACATTC AAGGGCTAGA GGATGTGGGT TTAGTGCACA GGCTCATTAT
18781 CCAACAGCTG TGCTACCTGG GAACTTAAAC CTCTCTGTGC CTTAATTTCC TCATCTATAA
18841 CGCAGGGAGA ATGACAGTAG GTATCTCATA AGGTGTTGG AACAACTAAA TGCATTGGTA
18901 TCTATTGTGT AAAGTGCTTA AAACACTGCC TGGCACAGAG CAAACATCCA GTGAACTTTA
18961 GCCATCATCA TTATCATTGT TCTCAGAGTC AAATACAATA TCTCATATCT GATAAATTAC
19021 AGAAGTGAAT CAATCACTCT CTCTCTTTTC TCCAGGGGGA GACAACAGCT TTTAGACATA
19081 TCTTTTCCAA CAGTCGTAC TGCTGGACAC TGTTCATCT TGCAAAATAA CCAATGAAAA
19141 TGAGTGATCC TAGAAGAAGA TAAATGGAGG TATTTTGAAC AATCAAAGAA GGACAAATGA
19201 ACACCTGGCT GAGAAAAATT AGCTCTTTTT TCTATGCATA AAACATTATA AATATTCTTC
19261 ATAGAAATTT ATGACACAGG AACATAAAG ACAAATTA AATAACTCCT AGTATCTCCT
19321 ATTCTTTTTA TATGTATATT ATATATACTC ATATTCATAT ATACATATAT CTCACATCAT
19381 GTATCATATA TAAAATAAAT TTAGGTGTCA TGATATATAT TTAGATAAAT ATACTTAGAA

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19441 ACTTTTTTAT GGATGTATAA TTTATGGATA TATTGATAAT TATGTATTTG TTATTGACTA
19501 CTTCAATTGA TTCCCATTTT TATGCATTAT ATTATAGATT ATATAGCTCA CACATCTTTG
19561 TACATAAATC TTTGTTCAAA TATTATTTC TAAAGGATAGA CTTTCATGAAG TGGAAATACT
19621 AAATCAAAAG TGAAAAACAT TTTCTAAGGT TCTTAACATA TACATTGCCA AATTGCTATT
19681 CAGGATCATA CCAATTTATA ATCCCAAAAT AATATGAAAA TTCCTGTTTT ATAGCACTCA
19741 TATTTACAAT AAATTTTAAA AATCACTGTT AACCTAATAG TCCTTCAAAA GAAAAAATAA
19801 TTGAAATTAC ATTATTTTAA TGACTCTATT AGTGAGGGTC ATTCTTCCCA TGTTCCTTGT
19861 TAGCCATGAC CCTATAAGAA ATAACTGCA CTGCAAAATG ATAAACATGA TATCAATCAT
19921 TACATGGGAA GGCCTATAT AAAGAATAAT ACCTTAGGTT AAGGCCACAT AAATATTTAT
19981 CAGGTGCCTT TTCTGCGGAG GACTCTGAAG GGATACTAAA CTGCATTAG CTGCATGCCA
20041 CTGAAATTAC TTTTACCTAC ATTGTCTCTT ATAAACATTA TAACTACTCT TTGAGAAAGT
20101 GTTTACTATG GACTGAATTG TCTCCCATC CCCCCAAATT CATATATTGA AGCCATAAAC
20161 CCCAATATGA CTCTATTCTT AGACAGGACT TATAAGAGGT AATTAAGGTT AAATGAGGTC
20221 ATTAGGATGG GTTCTAACT GGATAGGATT GGTGGCCTTA TAAGAAGAGG AAGATTCTGC
20281 ACTTGGTCTT CCAAATTAAA TAATTTATTT AAAAGAAAAA AAAAAAAGA GGAAGAGAGG
20341 GAGCTCTGCA CATATACTGA GGAAAGGCTA TGTGAGCTCT CACAGTGAGA AGGTAGCACT
20401 CTACAAGCCA GCAAGAGAGC CCTCACCAGA ATCCAGCCAT GCTATACCCT GCTCTGAGAC
20461 TTCCAGCCTC CAGAACTGTG ATAAAATTTT GTTGTTTAAA CCACACAATC TATGGTATTT
20521 TTTTATGGCA GCCCAAGCCA ACAAAGACAG CATCATTTGCT GTCACCTACA GACAAGAAAA
20581 CTAAGACTAG GAGAGAGAAA AGTTAAACTT GTCCAAGGTC ACAAAGCCA GAAACAAGTG
20641 AGGTGAGAAG TTGACCTTGT TCTCCTCAAT CCAAGGCCAG GACTCCTCCA CTCCACATGT
20701 AGATAGCCAC CTCACAGTCA ACAGCCAAAT GTCCACACCC CAGAGTCAGC ATTAGACCAA
20761 GATGTCTTAC CAGGAGACAA ATGCCTCATC TTGAATAAAT ATGTTCTAAC AACTTACCCA
20821 TGTAACAT TGAATCTCAT GAGAAACAAA AATGCAAGT ATGTAGAAAA CTATGTTTAC
20881 CACTTAACCTG ACAGTGATAA AAAGCTTAAT GATATCCTTA TAGTCTTGA GGGGTTTGT
20941 TATGTGGTGA AACAGGTGCT CACGCACTGC TGATAGACTG TAAATTGGTC CTAGAGAGAA
21001 AAATAAATAA ACTGGAAGGA GTTATGCTGT ATGTTTACTT TTTTATGGA AACATATGAT
21061 ATACCTGGAA ATTCGATTGG CCATGCATCT ATTTCTTCAA TGGGTATGCA CAGTTGAGCT
21121 GTTCCCATGC ACCAGGCACT GTAATGGGAC AACTGCACAT GACAGTCAA AATCTCAGTC
21181 TCATGAAGTC GACATGCTCA TGGAGAGGTG CTACCCACTA AACTAATATT TGTATATCAA
21241 TTATGGATAC ATTGGGCCAC ATTTACAGAA ATTCACCTAC AGTGGGTTAC CAGAAGGGAT
21301 TTTTTTCTT GATTGGCAAG AAGGCTAGGC TGTCTTCTAT CATCCTGTGT TAACCATCTT CCATGTATCT
21361 AGGCTGCCCA AGTATGCAGG TCTCTTCTAT TGTCTTCTAT CATCCTGTGT TAACCATCTT CCATGTATCT
21421 TTCAACCTCA TGGTCATCTG CAGCATGTCT AGGGGTCATA TCTATGTTCC ATGCAGGAAA
21481 AAAGGGTAAA GGGAAAGGGA AGTAGGCATG TACCATTTTA ATGCACACCT TGGTTTTTAC
21541 AAAATTTAAG AAGAAAGACT TTCTGCTTTT CTCTGACTAT TCTGTATTCT GGATTACAAC
21601 GCAACAGAAA CGTCACCTTA AATTCTAATG TTTTCTCTC CTGCTTTCA AAAACTGACT
21661 CATTAACTC CACGTGGCTT GGAAAAATTA TTTCAGTCAT CCAGTAATGA GCTGTTTATA
21721 GAAATGTTTT GGACATCAAG TCTGTGTTGT TAGCATTATA CATGTTAAGC ATTGAATAAA
21781 AAACAACATG ATGTGGGTAC ATTTCTTTAC TTACATATAA GTACTTATAT ACTTATAGCT
21841 GAAAAGAGAG GTTGAAATGT CAGGTGGAAC AGAAATAAGA TTACCTAGAT GTTTCTCCTA
21901 TGGGTGATTT TCAGCTATGC TGATCTTTCT TCTGGGTCAG GTACTCCCAG AACTTCCTAA
21961 TTAATGGTG GCCCTGATCT TAGTCTCTCT CTCCTCTTAG ACATTTTCCA GGACTACAGA
22021 AGATGTGCAG TTTATAAATG AGTAGCAGAA ACCTACTGAA CAAATTATTC AGGCTCATCT
22081 GAACAGAGAG GACACCTTCT CTGCTATACT CTCTCAGTGA TTTCCCTGCC TTGGGGTCAA
22141 TTATTGTCTT GGACATTGAT TTAAGCACAT AATAATTGTT GTCATTGCTT ATGTTTGGAT
22201 TTCACTCCC AAAATAGATG GTAAATCTT TAGTTTAGAG ACCAAGTAAT ACTTACAAAA
22261 AAATTTGTG TGTGTGTGTG TGTTTTTTCT GTGTCTCTCA GCCCTGTAAT AGCATCGTAC
22321 TTACACTTGT TAGATTTTAA GAGACAACCT TTACAAAAA TGGAAATTATC TACATACCTT
22381 TTCTACAAAA CAGACAAATT AAATCTCAG TAGTTGAACC AAAAAAGCA GTTCAATAAA
22441 AATACTTGAA AATGAAGAAA TCATTGAAC AGAGTTAAAG TTAATCGTAA AATAATGTCT
22501 GTAAAAATTA TTGCCAATCA AATATAAAGT TCAAAAAATAG TGCTTGAAAA AGGAAGATC
22561 ATATGAAAAG GGAATACTCA TTTTAAAAAT GTTAGATATC AGGAAAAGCC AAGAAGTGAG
22621 TATGGTAAGA GTGCTGTCAA GTGAAACCCT GCTAATCTCA CTGAACATGT AAAAATCTGT

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22681 AGATGCCTTT ATTTTATTCA CTCACACACA TATGTAGAAA GAGAAATATA TGGTAAACAT
22741 TAAAAAAAC AAATTAGAAT GTAAATTAAT TACTTTAAAA AATGGGCTGT ATACTTTTCT
22801 TATCACCGGA GATAAGAATT TATTATTTTT AAAATAAAGT TATTTTCTCT GTGACTGTTT
22861 CCATGACTTT GCTACTTAGA AGTTAGAGAT GCCAAAGTTT ATCTAAGAAA ATGTTTATGG
22921 AAATATTATT TCAATAATGA ATGTTTAGAA GACTGAATTT CCTGACTGGG CACAGTGGCT
22981 CATGCCTGTA ATCCCAGCAC TTTGAGAGGC TGAAGAAGGA GGATCGCTTG AGTCCGGGAG
23041 TTCAAGAGCA TCCTGGGCAA CACAGCGAGA CCCTGCAGCA AAGTAAAAAG AAAAAAGAAAT
23101 TGAAAAAGGA AGACTGAATT TCCTTTGGGC AAGTCATGTG ACATTCCTGT GCCTCAGTTT
23161 CTTCATCTAT AAAGTTAATT CCTACATTTT TGGGGAAGGG AGAGAAAAAC TTAGGATAGT
23221 GACTGGCACA GAAGAAGCAC TATATACTAT ATATATGTGG ATATCATTTG TTTTATGGT
23281 ACCATTTTAG CTATCTAATG CAAAATATGA ATCTTTTTTT TCTGGGTCTT AAATTATGGA
23341 ATGTAAGAAT TTTCTAAATT CTCTAATTCT GTGTTAGTTT TAAAGCAATG GAGTAACGTA
23401 TCTGTCAACT TGTAATATA AGGATCAACC TGATCCACAA TTTGACCCCT AGCCACTAAT
23461 ATTTAATAGT ACAACACTCA AAGGTCAGAG AAGCCAAACA AATGTAAAAA
23521 CATAAGGTG CTCAGAAAGA TGCACCTGTA ATCTCTCTAA GGAGAAATAT TTTCCAACT
23581 GAGTGACACG GTGCTTTAGT GAGTTGTGGA ATCAATCTCA TGATTTCCAA CCTAGTGTTC
23641 TTTTAAAAAT GAACTAGTCC ACAGTAGAAT ATACTAAAGT GCTGGTGCTT AAGATAGTAT
23701 TGTTTTCTGG AAAAAAATAA AAAATTTTTT TTTTTTGAGA CAGGGTCTCG CTCTTGCCCA
23761 GGCTGAAGTG CAGTGGCACA ATCATGCTCA CTGCAGCCTT GACCTCCTGG GCCCAAGTGA
23821 TTCTCCCACC TCAGCCTTTT GAGTAACTGG GACCACAGGT ACGTGCCACC ACACCCGGGT
23881 AATTTTTTAA TTGTAGAGAC AGGGTCTTGC TATGTGCTTA GGCTGGCCTT GTGAACTCCT
23941 GGGCTCTAGT GATCCACTAG CCTCAGCCTC CCAAATTTAT GGGATTATAG GCATGAGCCA
24001 CCCTACCTGG CCTGTTCCCT GAAATTTTTT TTCTTTCAGG TGTTTGTGCA TATGTGTGTG
24061 TGTATGGGTA TAACAGAGAG ACAGAGAGAA AGAAACTTTT CTATCACACT TTGCTAGTCTAG
24121 AAGTTTGAAG TCTTATCTTT TGGCTTTTGT TTCAGAAATA TTTCAAATGT AGACTCTCTC
24181 CTTTACCACA CTGTCCCCTT AGGCAAGGTC TTTGCCATTC TTCTGAGACT ATTGCAACAG
24241 ACTCCCAACT TCTGACTGTG GGCCCTTCTC AAAAATGATT GTTTATGCAA TAAATCTAAA
24301 CCCAAGACAA CTACAACAAT ACAACAAATT CTCTGCTTAA AACTTCCAA TGTCTGCCGG
24361 GCGCGGCGGC TCACGCATGT ATTCCCAGCA CTTTGGAGGC AGAGGCGGGC AGATCACTTG
24421 AGGTGGGGAG TTCGAGACTA GCCTGGCCAA CATGATGAAA CCCCATCTCT ACTAAAAATA
24481 CAAAAAATTA GCCAGGCATG GTGGTGGGCG CCTATAATCC CAGCTAATTG GGAGGCTGAG
24541 GCAGGAGAAT TGCCTGAACC TGGGAGGTGG AGGTTGCACT GAGCCAAGAT CACACCATTG
24601 CACTCCAGCC TGGGCAACAA GAGCAAACT CTGTCTCAA CCAAACCAA ACAAAACCTC
24661 TAATATCTAC CAAATGTTTC ACACAAGTAT TTGGGGATCT TCACAAATGG CCCTTATGGA
24721 GTTTTCTTTT GCTGAGACCC TATGCTCTGG CCACACTAAA CTCATTCAGC ATCCCAGAAA
24781 GGCCTCAGCC TTTGTGAGCA AGCTCTTATC TCCAGGCCTC TCACAAAGAC CTGTTCCAGT
24841 AGAAGCTCAG GGGAGCACAC TGGACATTAT TCCAACAACC CTTTCCCAC AGCTATGCAG
24901 CCAAATCTGC CAGCTCAGTT AATTAATTAA GCAATTCAGA GATGAGGGTC TGCCAGGCT
24961 GGAGTGCACT AGCTGCGACC TCAAGCTCCT GGGCTCTAAG TGATCCTCTT CAGTCTACCC
25021 AGAAGCTGGG ACTGCAGCA TGTGCCACCA CACCCAGCTA ATTTTTTTTT TTTTCAGTAG
25081 GGACCAGGCC AACCTAGTCT TGAACTCTCG GCCTCCAGCC TTCCGAAGTG CTGTAATTAC
25141 AGGCATGAAT CACTGCGCCC AGCCAACCCG CCCAGTCTTG TTAGACATGG GGTCTGTAGT
25201 TTCTAGTAGG TTCTTGAGTC TAGGGTTCCT ACCTCATGTT TTATAGTTAA TTTAGGGGAG
25261 GGA CTGTGTC TGTTTATCTG GGGATGTAGG GGTGGGCAGG GGGATAGAGG GGA CTCTCAAT
25321 TAATGAAACC AGAAGCAAAA CTCAGTTGAG GACACCGGTC ATGAGAGTGG CCTGATTATG
25381 GCCAATCTTA CATAATGTGT GAGATCTTGA TATTACCCCA TCCTTGAGAG TCCTCTATAA
25441 AGCTACAGGG ACTTGGGAGC ACCTTTAATT ACAGACAACC CATGTTCTCTG TGGATTATGA
25501 TTTATTAGAT TGCACATGCC TAAATAAAGA CATCTCTGC AGTCTTTTGA CAATTCTATA
25561 AGCATCTTCT GACTCCGCAA TTAGACAGCT AAGAGATCTG TGTTACTTCC CTCACATATA
25621 TAAATAATTT TAAATAAAAA TCATGGCGTG AATAATTTCT TTCCTCTACC GATTGAGGC
25681 TATCCATTTG GAAGACCACT CTGAAGAGAT GAAATAAGTC TTCTGCCAAA GATTACTTAT
25741 TAATTTACAA GGAAAAGGGG AAGTTTGTG CCTCTCCGTG AATTTGATTG AAAATCGAGG
25801 GCTTTCTCGA ATAGTTTTGG CATCCAGGGT CATTTTTCAT TAAAAAGAGA AAAGTCATGT
25861 CAAATATGAA TTTCCGCAGA TTATTCAGCA CTAGACCCTG GGAGATTCTG TAAAGAGGGG

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25921 TTTTGTATA CTCAACTTTT CCGGGTAAAA CAAACACAAA TACTCCTCCT CCAAGGGGCG
25981 GGGGCGGTGC CTAGGTGATG CACCAATCAC AGCGCGCCCT ACCCTATATA AGGCCCCGAG
26041 GCGGCCCCGG TGTTTCATGC TTTTCGTGG TTATTACATC TTGCGTTTCT CTGTTGTTAT
26101 GTCTGAAACC GTGCCTGCAG CTTCTGCCAG TGCTGGTCTA GCCGCTATGG AGAAACTTCC
26161 AACCAAGAAG CGAGGGAGGA AGCCGGCTGG CTTGATAAGT GCAAGTCGCA AAGTGCCGAA
26221 CCTCTCTGTG TCCAAGTTGA TCACCGAGGC CCTTTCAGTG TCACAGGAAC GAGTAGGTAT
26281 GTCTTTGGTT GCGCTCAAGA AGGCATTGGC CGCTGCTGGC TACGACGTAG AGAAGAATAA
26341 CAGCCGCATC AAAGTGTCCC TCAAGAGCTT AGTGAACAAG GGAATCCTGG TGCAAAACCAG
26401 GGGTACTGGT GCTTCCGGTT CCTTTAAGCT TAGTAAGAAG GTGATTCCCTA AATCTACCAG
26461 AAGCAAGGCT AAAAAGTCAG TTTCTGCCAA GACCAAGAAG CTGGTTTTAT CCAGGGACTC
26521 CAAGTACCCA AAGACTGCTA AAACCAATAA GAGAGCCAAG AAGCCGAGAG CGACAACCTCC
26581 TAAAACGTGT AGGAGCGGGA GAAAGGCTAA AGGAGCCAAG GGTAAGCAAA AGCAGAAGAG
26641 CCCAGTGAAG GCAAGGGCTT CGAAGTCAAA ATTGACCCAA CATCATGAAG TTAATGTTAG
26701 AAAGGCCACA TCTAAGAAGT AAAGAGCTTT CCGGGAGGCC AATTTGGAAA GAACCCAAAG
26761 GCTCTTTTAA GAGCCACCCA CATTATTTTA AGATGGCGTA ACACTGGAAA CAAGTTTCTG
26821 TGACAGTTAT CTATAGGTTT AAGTTGTGAT GCAGCTGAGT TGAAAAGGCT TGAGATTGGA
26881 GAATTAATTC AGGCCAGGCT TCAAGACCAT CCTGGGCAAC ATAGCCAGAC TACCATCTAT
26941 ACCAGGGGTC CTCATTCCCC CGGCCACCGA CCGGTAACCG GTCCCTGTCC ATGGCACGTT
27001 ATGAATTGAG CCGCACAGCT GAGGGGTGAG CGAACATTAA CCAACTGAGC TCCACCGCCT
27061 GTCAGTTAG CTGCAGCATT AGATAGATTG TCATAAGCTC AAAGTGTATT GTGAATGGCA
27121 CATGCAAGGG ATCTAGGTTT CAGGCTCCTT GTGACAATCT AATGCCTGAT GATCTGAGGT
27181 TGGAGCAGTT TTAGTCCGGA AATCATTGCT CCCAGCCCTG GCACCCCTG TGCCGTGGTA
27241 TAATTGTCTT ACACAAAACG GTCTCTTGTG TCAAAAAGGT TGGAGACTAC TGGTTTTACA
27301 AAAAAGTAAA TTAGTCAAGC ATGGTTGGCA CGCTCCCTTA GTCCCTGCAC CCAGGCGTTT
27361 AAGGATACAG TGAGCTATGA TGGTGCTACC TCACTCCAGC CTGGGTGACA GCGAGTCAGA
27421 CGTTGTCTCA AAAGTTAAAA AAAAAAAG TTAACACAGA AAAAGGGCTT CTTGTCAGAG
27481 ACTGCCGTAT ATCTAGAGGT CCAGGAACCTA AAAAGTCTGA TGTCCAATCC TGAAAAGCTC
27541 GATGGTGCAC TAGAGGAGGC TTTTACATGT AAGAGCATCT AAGTTCTGGA AATGCCAGTG
27601 TCAGGGAAGG GAAGTGGAGA GCAATTGGC ATCCAAACAT AACTTGCTGA TACTTTTTTT
27661 TTTTTTAACA CAAGTACTAC ATTCTAGTCT TTCTGTGGTG TCATTGTAAC TATTGTTTCT
27721 TAATATGCTA TCCACTGACT TCAAGGGATC AATAAATAGG AATCAAGGTG TCCCAGATA
27781 TGGATTAGGG GAGTTTTTTT TTTGTTGTTG TTGTTGTTGT TTTTCTCTAT TCATTATCCT
27841 GTAGCTGAAA TTTAGAAATT TCTTCCATTG TGTGTGACTG ATAGAAATAA CAAATTTGTA
27901 GGTATAGTT GTTGCAAGAA TCTGGAAATC GTGCTTGCTT ATTTCCGAAG TACTATTAGG
27961 TATATCAACA AAAACACACA TATTACGGTC AAGTGGTTTG ATAATTATTT TAATATTATT
28021 GGTCTAATAC AATTGTAACC CTATGAATTA CTTTAAGTAT CTTATTTATG AAAAGAATCT
28081 GTAAGTTTCA TCAAACTACC AGAGCATACC GAAGACTGAA AAATTTTAAG AATCCAAACC
28141 TTAATGGAAA TGTTGGAGGC TGCCCAATTA GGTTCCTGAAT TCCACCTTCC TGAATCACAA
28201 ACTTGTTTTA ACTCTCAGTC TGAGGTAAAC TACGTTTCTC TTTAAACAGA CATAGTTTAA
28261 TTTTCCTTTG ATTTTGTGATT TAGTATCTT ACTGATCATC ATAAATAACC AATGCTAATG
28321 TTAGTCTACT TTGGACCATG GTATTTGAG AAAGTTTGAA CAAAGTCCCC TGCAAAACTA
28381 TGCATTGCAT TATTTACAT ACATTTATGT TTTCCAGACG GTTCAATAGT ACCTCACTTT
28441 TCTGAACCTA TTTGTATAGT TTGGCATCTT TTTAAAAATT GTGTCCTATA ATGAAAGGTT
28501 GTAAACATTA TGTTTTAAAT TTGTATAGAT AAAATCAACC ACAGACCTTT CTTGCTTGG
28561 ATGTAATTGC CATTGTTTCC CAATGAGTTC GGAATTAATA GGATTGTGCA AAAATATGCC
28621 TCACTTGCCCT GACATAGCAG AGAGCCATTT TGCCTAAATG CTGTGCCAG CAATGGACTG
28681 TCACCAGATT CTCATCACAT ACAGTGAGGA TGAACAACTA GCCTCTCCCA GCAGCTGGCC
28741 GGTCTCTCAA TAATATGGGA CTCCTCAAG ATGGCTTCTT GCACCTTTGC TCCTCTAGCC
28801 TTGTATGTAT ACAAGGCTAG CATGCCTGGC ATACATAAGG TTAACAACTA AATCAATAAG
28861 TTATGGTTCT TCCTCCAGTT CTGGGGATTA TTAGACCACT TTTTGTTTT GTTTTGTTTT
28921 GGATGGAGCC TCGCTCTGTC ACCCAGGCTA GAGTGCAGTG GCACAATCTC GGTTCAGTGC
28981 AACCTCTGCC TCCTGGGTTT AAGCAGTTCT CTGGCTCAGC CTCCCACGTA GCTGGGATTA
29041 CAGGTGCCCG CCACCACGCC CAGCTAATTT TTGTATTTTT AGTAGACGGG GTTTCACCAT
29101 CTTGGCCAGG CTGGTCTTGA ACGCCAGACC TCGTGATCCA CCCACCTTGG CCTACCAAC

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29161 TGCTGGGAAT ACAGGCGTGA GCCACCGCGC CCGGACTTAG ACCACTTTGT TTTGGCCAAT
29221 AGGACAACAG CCATAGAACC CTCCGCAAAT GAGAGCTTGT CCCTAAAGAT GCTTTATTTA
29281 CATAGCTGTG TGCCGCATGA GCCAAAAGGT GATAACCTTT GTTCAACACG CGCCTCCAGC
29341 CCTTCGGTTA AGTCCAAAGT ACCATTCTTA GAATGCTCTA AAATACATAA TTTTTTTTTT
29401 TTTTTTTTTT TTTTGTAGGA GTCTCTCTCT GTCTCCAGG CTGGAGGGGA GTGGCGCGAT
29461 CTCGGCTCAC TGCAATCTCT GCTTCCGGGC TAGCTGGGCC TACAGGTGCA GACCACCAGC
29521 CCCGGCTAAG TTTTGTATTT TTTTGGTAG AGGGGGTTTC ACCATTTTGG CCAGGCTGGT
29581 CTCGGATTCT TGATCTCAAG TGATACACTA GCTTTGGCCT CCCAAAGTGC TGGGATTACA
29641 GTCGTGAGCC ACTGCGCCCA GCAAAATGCT TTTTGTGGAG CCAATCACTT TATTAGCGCT
29701 TACCTCTCTA TGCCTACTTT ATGCTTTGAA ATTTTGTAC AGTGGGGCCG GTCATGGCAA
29761 ACACAATTCA TTCTTATGCA GGCTGTCACG GTTATTCTG TCATCCAAAC TCATTCTCGC
29821 AACGCATTTT AGCTCTTTAA ACGACTTTGT GAGCGGCCCT GAAAAGGGCC TTTGGGTTTT
29881 TTTGTTTTTG TTTTTTGAAG TTCTCAGGAG ACCCGGTATT CTTAGATTCA GCCGCCGAAG
29941 CCATACAGAG TGCGCCCTTG ACGTTTCAGG GCATATACTA CATCCATGGC TGTGACAGTT
30001 TTGCGCTTGG CGTGCTCCGT ATAGGTGACG GCGTCTCGAA TAACGTTCTC TAAGAAAACC
30061 TTAAGCACAC CTCGAGTCTC CTCATAGATA AGACCGGAAA TGCGCTTGAC GCCACCGCGC
30121 CGAGCCAAAC GGCGGATAGC CGGTTTTGTA ATGCCCTGGA TGTATCCCG GAGCACCTTA
30181 CGATGGCGCT TAGCACCACC CTTCCCAAG CTTTTCCGC CTTTGCCCG ACCAGACATG
30241 ATTCTATCG CAGTGAAGG TATGAACTGA AACAGTTCTT TAAATACAAA CTTGGCGGAC
30301 CTGATTGAAA ACAACATGAG TTGGCGCGGT TTTTTTTTTT TTTCAAATTT GGTCAACCAG
30361 TGGGTGGAGC AAGAAAACT GTTTCATTAT GGTTCATTGT TTTGATTGGC CAGTGACAGC
30421 TTGCTCTTTG TGGGAGTGGA AGGGTGTGTT CAAGTTGAAT GCGCTGTATT CCTGTACAGT
30481 TAATGACGCT AAGCATAGCC CCATTCCACA TTTCTTTTTA TTTCCACTTG CTAACATAA
30541 AATTACGGAA TAGTTTATTG GGGAACATAC AAATAATGTT TAAAGGAGGT CAGATTATATA
30601 GGTCAAGGGA TTTACCCTCC CAATCATTTT AATATTTTTA TTTAAACCAG GCATTTTGAT
30661 GGCTTCTCT GTGCTGGACA AGGTATAAGT TTGGCTATGA AGTTTCACTC CTAAAGACCC
30721 TATGTTTTTG GAAGGCAAAA AGGTAGCCAA ATAATTGCAA ATTAAACCT CATAAGTGCA
30781 AACTTCTTCC TCGTCACTTT CCCTATCTCG ATTCAAATAT TTGTTGAATG ACTCATTTTT
30841 CTGCAAAAGT CTGAGAGAGA CAGGGAATAT AAACCTAAGT CTGGATAATA TGTTTCCCG
30901 GGACGCTCTT CCTGGTCTGC TGTGCCTGTT TGCTGTGCCT GAAATTCCAA ACCTCTTCC
30961 TTCCCTCCG TTTTAAATCC CCTTCAACT TGCTACAGCT TTAGAGAAAA GAACATACGT
31021 TTTGTACAGT TGGGATTAA TTGAAGTGTA GGGCTAATAC TTGATTAAGG TCATTACAAA
31081 ATCTACAGGG TCTTCTCTG GAGGTTTTT GTGATAAGAT TATTGGTGT AAAATAAGGC
31141 TAATCCCCTT GAAAAATAAA TAGAATAGCA GAATTGGGTC TGAATGTGGT TTGAAGAAAG
31201 GGACTTCTCA ATTCAAATTT TTATTCTTAG CTTCTGTGG GAGCTTTCCA GAATGCCCAT
31261 AAGATCCACT TTTGTTTAAA AAACAAAAC AACCCACCC ACCACTCTCT GGTTAATAAA
31321 TGAATTTCTA TTGGGAATAT TTAGAATGGG GCTGTGGCCT GTGAGAGACA TTATATAGTA
31381 ACCTCAGACT TGCTCACATG AAGAGAAGAA ATCCAGGAAT GGAGAAAAAA GACCCAGGAA
31441 AGGCCAGAA GCTCTACATG TCATATTGTT TGTATCACTT CTGAAATAAT TGATTACATT
31501 CTTCTGCCCC AAATTGAGTT CTTAGGTTCT TCCACTCACT GTCCACATGC CACAACACAG
31561 ACCTTATAAC TAGAGACTTA GCTAGGAAGA AATGTCAAAC ATTACAGAGA AAAAATGCAG
31621 AGTCTGAGAT CATAAGTAAA ACTCTGAAAT CTCAACATGC CTTTAAATTC ATGAAAATAA
31681 AAAATATAGC AGCATATGCA ATATGATAAT TCTCTGAAAA CATACATCAT GTGAACTACC
31741 CTGGAACACA TCTCGCCAAG TGCCATCTTC ATTTTAAACA GAGGTCTAGG ATGCCCTTCC
31801 TTTATTTTGC CTATTATATC ATTTATAAAA CCCCATTTTT ATTTTGATAT TTTATTTACT
31861 TTCTATTTCC TGCTCCTAAT ATCTCCTTTC TAACTTTTC TCAATGACAG TGACTCAAAA
31921 ACAATGAATG TCAGAACAAA TATTTAAAGG ATCTGTACAT GTAGATATAT ATATTTAAAA
31981 TGGATTCTTC CACTCTGGGA AGAATTGAGG CATACTCAAT CTTATGGTTA GGGAGAGATT
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32161 AAACAAGTTG TGGTTGAGAG GATACATGAA GCATTCAAAC AAATAAATCT ATGATATTAA
32221 TCAGAGGTTA ATCTATGATA TTAATCAGAG GTTAATGCAG TGGCTCACGG CTGTAATCCC
32281 AGCACTTCAG GAGGCTGAGT TGGGAGAAATC GCTTGAGCTC AGGAGTTCAA GACCATTTTG
32341 GGCAACATAG CAAGTCTTCA TCTCTACTTA AAAAAAATA ACCAGAGGTG TTATGAAAT

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32401  ATAAATTGTC CAGAACTACC CTCACAAAC TAACTCTCTC AGAATATTCTG ATATGAGGAA
32461  TGAAATATGG TGTGTGTGTG TGTGTGTGTG TATGTGTGTG TGTGTGTGTG TGTATGCACC
32521  TATATATGGC ACCTATATAT TCAACAAACA ATTCTGATAA TTGGCCAGGG TTGAGAATGA
32581  CTAGCAGCCC AGCATACACT ATCAGTTTTA AGTATATAAT TGCGCTTTAG TAAATGTAA
32641  AGAAATCCCA GAGTAGAAAT ACTTTTAAGC TATATTACAG GTGAGAAAAT GCATAAGTAT
32701  AGTCTCACCC AACTTAGACT ATGGGGGGCTT TATAATGTCA CAACAGTTGT TTCCAGGCAT
32761  TTGGGGACAT CACCACTGGT CTTGGGCAAG AAACCTCTCT AGCCAATGGC TGATTTATCT
32821  CACTCCCATC TAAGGCTTCA CTGCATTTCT CTTTTTCAGC AACCTAACTT ATTTAAAAAT
32881  ATCCATTTTC TGATTCATTT TTTTCTGAAT TAAACTGTCA GTACCATTGG CACACCTTTG
32941  GTTCCGTAGC ATACCTGTGT CTCTGCTGTG GTTTTTTTTA CCTCCACTCC TTAATTTTCT
33001  AGAAAAAAT CTCTGCTTTT TCTTTTCAGT TTAAATTATT TCACAAAAAG TTTTCTTGAC
33061  TTGCACCTCC TAGGCTTGCT GTCCTTGTGT GGGCACGCTC CCATAAACAC TATTAATACA
33121  CTTGCGATTG TTAATAATAA AGATATCTGG ACAGAAAATT TCTTTTCTTT TTTTAAGATT
33181  TTAATAATTT TAATGTTTAT TTTTTTCCTA GACTGGAGTA CAGTGGCACC ATGATGGCTC
33241  ATGGTAGCCT ACACCTCCCC GGGCTCAAGT GATCCTCCCA CCTCAGCCTC CCAAGTAGCT
33301  GGGACTACAG GTGTGCACAA CCACACCTGA CTAATTTTGT TTATTTGTTT GTTTTGTTTT
33361  TTGAGATGGA GTTTCGCTCT GTTGGCCAG GCTGGAGTGC AATGGCGGGA TCTCGGCTCA
33421  CCGCAACCTC TACCTCCAG GTTCAAGCAA TTCTCCTGCC TCAGCCTCCC GAGTAGCTGG
33481  GATTACAGC ATGCATCACC ACGCCAGCT AATTTTGTAT TTTTAGTAGA GACGGGGTTT
33541  CTCCATGTTG AGGCTGGTCT GGAATCCTG ACCTCAGGTG ATCTGCCCGC CTCGGGCTCC
33601  CAAAGTGCTG GGATTACAGG CGTGAGCCAC CACGCTCGGC CACTAATTTT GTATATTTTG
33661  TAGAGATGGG CTTTCCCTGT GTTGTCCAGG CTGGTCTTGA ATTCTGGGC TTAAGTGATC
33721  TGCCACCTT GTCTCCCAA AATGCTAGGA TTAAGTGGCT GAGCCACCAG GTCTGGCTGG
33781  AAAGATAATT TCTAACATTA TCCTCTCTTA AACATTTGTT TCAAAAATTT TACAAACATG
33841  AGAGTAATTA AATTTGATTT TCAAAATTC CTTGAATACT TTCTTAATAG CACACAGAAA
33901  GCACAAAGTA TTTTACATTT GTTTTAATGA TGAAATTGTG AACCCTAACT TACACAAAGA
33961  AAAACCGTAA CATTATACCC ATACTTAAAA CAGATGCCCT CATATACATA GTAAACTCT
34021  TGGGGGCAGT AGTGAAAGTT GTTATTACT GTTTTATGAA AGTGCCATTC AGCCGGGTGC
34081  AGTGCTCAT GACTGTAATC CCAGCATTT GGGAGGTGGA GGCAGGCTGA TCACGAGGTC
34141  AGGAGTTCAA GACCAGCTG ACCAAAATGA TGAAACCTG TCTCTACTAA AAATACAAC
34201  ATTAGCTGGG CGTGGTGGTG TGTGCCTGTA GTCCAGCTA CTCAGGAGGC TGGGGCAGGA
34261  GAATCGCTTG AACCTGGGAG GCGGAGATTG CAGTGAGCCG AGATCGCACC ACCGCACTCC
34321  AGCCTGGGAG ACAGGGCGAG CTCCGTCTCG AAAAAAAAAA AAAAAAAGT GCCGTCATAG
34381  TGACTTAGTT TTAAGGAATA AATCAAGGAT ATTTAACTCA ATAGACTACA GTTAGCTAAC
34441  GTGACTTGCA CTGAAAGTTA TACGAATATT GGTACTTATT CCCCTGCCCC TGAAGTATGA
34501  ATTAAAGACT CAAAATTTCT TTTTAGAATC TTCAGAGTAA AAGCTAGAAT TTGATTTTTT
34561  TAAATAATAA AAAAATACTT TGTATCTAAA TCTGGTGTAT AAAATAACTT GGTGGATGAT
34621  GCTTCAAGGC TATCCATCCC CAAATTTCTC CCTGAATGAT AAAGAGAATA AATGAATATG
34681  TCAATTCAA AGTTAGAAAT TTGGCCGGG ACGGTGGCTC ACTCCTGATA ATCCTTTCGG
34741  ACGCTGAGGT GGGTGGATCG CATGAGCTCC GGAGTTCAAG ACCAACCTGG GCAACATAGC
34801  CAGAACCCGT TTCAATAAAT AATAGAAAAA AATGAGCCAG GCGTGGTGGT CCCAGCTACT
34861  CAGTAGGCTG AGGTGGGAGG ATCACTTGAG CTCAGGAGGT CGAGACTGCA GTGAGCCGTG
34921  ATCGCAGTAC TGCACACCAG CCTTGGTGTC AGACTGAGAC CCTGTCTCAA CAACAACAAA
34981  ACAAGTTAGA AATTTGGCTG GCGCGGGTAG CTCACGCCTG TAATCCCAGC ACTTTGGGAG
35041  GCCAAAAAGG GCGGATCATT TGAGGTCAGG AGTTCGAGAC CAGCCTGGCC AACATGGTGA
35101  AACTCCATCT CTAATAAAAA TACAAAAAAA CTTAGCCGTG CATGGTGGCA TGCGCTGTA
35161  GTCTCAGCCA CTTGGGAGGC TGAGGCAGGA AAATTGCTTG AACCCAGGAG GCAGAGGTTG
35221  CAGTGAGCCG AGATCATGCC ACTGCATTCC AGCCTGGGTG ATAGAGTGAG ACTCCATCTC
35281  GAGAAAAAAA AAAAATTTCT GTATGAACTG AACAAAATAT CCTTAAATTT TAAATACAT
35341  CTGAAAGATA TTCAAAAATA TTAGGAAAAA AAATTATAGG GATCAGGCAA ATTCTGAGAT
35401  TCCTTTTTCC CTGCAGCAA CATTAGGAGT GCTGCTGTTT CTAAAAACAT GGTAAGTGT
35461  GCCACACCGT ATGTTTCCTT GGCTCAGACA TAAGGTTGTG TAGTTGTTAT TCCAGAATAG
35521  CTAGAATAAA AATCCAGCAC ATCATTTTCT TCAGCAAGTT AACTAACCTC TCTGTGCCTT
35581  GGTTCATAA CAGCAACATA AGCATAACAG AATAGCAGCA ATAGCTCCTA CCTACCTCAT

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35641 AAGATTCTTT GGAAGAATTA AATTAAGATT CAGAACACAG CCTAATATCT AGTAAGTAAT
35701 AATAATTGGC TAAAAAATT TTCTTAAGAT TATATATATT CATGGGGTAC AAGTACAATT
35761 TTGCTACATT AATATATTGC ATTGTGGTGA AATCAGGGCC TTCAATCCAT CCCGGAAAAA
35821 AAAAGTTTTT GAAAAGATTT CTGCCATGGA AAACTTTTAA TGTACAAATT CATCCATCCA
35881 AGAAATAGAA AATATATAAG TATCAACTCC AAATCCACCA TATCTATCTC TTCTGCACCT
35941 TAAACAATTA CTCAGAAATA GAATGCTTGA GATACCAGAA TGCATGCATA TCAAGTAATA
36001 AATGCATGCA GGATGTCAAC GCATCCTAGG CTTTCAAATA AAATTGTCAT ACAAATACT
36061 TTAATATTGT AGTAACATTC TACATGTTAG AGTGTAGAAG TTAATCGCTG ATGCAAAAAA
36121 GGAAAAGAAC ACATTATACC CAAAGCCTAC AGAGAGAATC ACAATTACAA ATATCAGCCT
36181 GCATGTGAAA ATCTTTAATT TGAAAGTCAG AAATATTTAA ATGATAGTCA TTGTTAAATC
36241 AGATTGTGGT TTGAAAAAA GTTAGTTTAA AACTGAGTTT ATGAAAAATT TGGGGATTTT
36301 AGAGACAGTG TTTTGTTTTT AAATGTGTGT ACAACATAAG AATTTTGGCC TGTACCTCTC
36361 GACAGTATTA TAAGATGACA TTATTATAAT GAGTTTGTGA AGAATGTTTT ATAAAAACT
36421 AGCAGTCTC AATCACCTGC TGTACTTGAC TCAATGATTA TCAGAGTGGT TTGTTTTCTC
36481 TCTGTTGTGT TCCCAGTTCA GGCAGCTCAG CAATGGCCTG TGATTCCAGC AATTCAAATA
36541 GCTGGTAAGT AGTTTCTTGT TTGTTTTCTC AAATTTTCAG GGGCTTTTCT CTACAAGTGA
36601 TTTCCAGTGC ACGCCCTCC ACCCATTCTT TATTCCTTTA CCTTCAGGAA AACCTCAGC
36661 GCTGCATCTC TGGTCACCGG ACCACCGTGG TACATTTACC TATGGCCACC AGGTGTCACC
36721 CTTCCTTTA CTACCATGGT TTGTGAATGG TTTTGCCAGA GGTGAATAAG AATTTAAAT
36781 GCAGGTCTTT GATTTTTCAA ATGTAGTTGA CCTTAAGAA TTAATGAATA AGCCAGAAAA
36841 ATTAAGCTTA AAAAAACCG AAAGAAATG AGGACTTAAA ATTTCTATTA AAAAAATTAA
36901 CAGGCCACAG TTGCTGATGT TTAGTAAATG TGTTAGTGAA ATGTGTTACT GTGAAGACTG
36961 GGGTGTCTTCT TGAAATCTCA GCCCAGGTGA AATAAAACCA ATATAAAACA AATGCTTACC
37021 TAATAAATTA ATTGTAACAT ATTCCTTATG AGGTAGAAGA GTAAGTGAAG CCTTATAGCA
37081 GTCTGCTTTC AGTATAGTAA GATATTAAGA GAGAAATAAT TTGTCATATG CTTTCAGAA
37141 GGTGTGCTGG TAAATAACC AATGTCTTAC AACTTAGACG ACAATGTCCC TAGAGTGAAG
37201 AAACACGATT AATTCGGCTA CCACAGTTGA ATGAAATAT TCCGTAGAC AAAATGTAAA
37261 GAAATTAGAA GCAAAATAAA TGTCTCCAAA ATGACAAAGC GATTAAGTAT ATACACAAGA
37321 TGAACAAGAA CTTCAATAAA ATCATGCAGT ATACAATACA ATGTACATTT ATTAAAGTAT
37381 ATGCATTTT AATGCAACAA TAATACTAAC AGGTAATAGA CAAGTTGTTA ATAGTTTTTC
37441 ACTGGCTAAT TAAATAACAG CTTTAATTGT ATTCATTTTA TAGCTTTTCT ACAATGAGCG
37501 TAAATCACAT TTACTTTTTT CTACATAACT TTTCTAACCA CAAAAAAGA AAATGGTTTA
37561 AAAGAAGAGA TGAGATATCT TTGCTAAAAT TTAATGCCTA AAGAAGAAAC TTCTGAGCTG
37621 TATATGGTAT CCTGAAGCAC CTGCCCTTCA AGACAGAATG CTTGTACCAC ATTTATGCAG
37681 CCAAGTGCAT GTAGTAACAT AAAGTAAACA CATGCCATCT GGATATATAT ATTAAGACTC
37741 TTTTGACGGC TGGGCAGGGT GGCTCACACC TGTAATCTCA GCACCTTGGG AGGCCGAGGC
37801 AGGCGGATCA CGAGGTCAGG AGAGTTCGAG ACCAGCCTGG CCAACATGGT GAAACCCTGT
37861 CTCTACTAAA AATACAAAAA TTAGCCGGGC ATGGTGGTGC ACGCTGTAA TCCCAGCTAC
37921 TTGGGAGGCT GAGACAGGAG AATCGCTTGA ACCTGGGAGG CAGAGGTTAC AGTGAGCCGA
37981 GATCATGCCA TTGCACTCCA GCCTGGGCAA TAGAGTCTCA AAAAAAATAA AAAGACTCTT
38041 TTGAACATGG TGAAGTATT TCCCAGAATC TAGCAATTCC TGAATGTCCT GGTAGATTT
38101 TTTTTTAAAT GTGCACCGGA ACCCCAGTGG CTCCATGGAA GGACCTGGGC ATCCTCTAAG
38161 CCACTTGGTG GCTTCCATTA TACCATCTCA AAATGAGAGA GCTTACTCCA CTTTATTGAG
38221 GGAAATACCA CCAGAGTTCT GACTCCAGAG GCACTGGCCT AGGGAGGACA CCGTGTGTGA
38281 AGCCCAGCAG GGCCACTAGC TGTCCCCACC AATTACAGTC CTTGCGTAGG GTCCAAAGAA
38341 ATGAATGCCA AAGAGAGCAA CAGAGGAGCA AGGGAGTCAC ATTCCAGGAC CTTCCCTTCAG
38401 GGACTTTTAA AGGAAACATG ACAGCTGAGG ATCAGTTGGT TGTTTTCTGC TGTTCCCTT
38461 CATGTGATTC AAGCTCATTC AGAAGAAACA CAATGAGACA AGAGAAGAGC CATCTCCTTC
38521 CTTCTCTATT TATTCTAGGC ATCTAACTA CTGAATGTAG TGGTGTCTGA GATGTATCAA
38581 ACGGTTCAGT TGACTGAGTT TGAAACCTGT TTCTATCACT GACAACTAT GAGATATCT
38641 ATACTTCACT TTCTTTTTTT TTTCATTTTT TTATTTTTAT TTTTATTTTT TTGAGATGGA
38701 GTCTCACTCT GTCACCTAGG CTGGAGTGCA GTGGCGCAA CTCGGCTCAC TGCAAGCTCT
38761 GCCTCCTGGG TTCATGCCAT TCTCCTGCCT CAGCCTTCCG AGTAGCTGGG ACTACAGGCG
38821 TCTGCCACCA CGCCAGCTA ATTTTTTGTA TTTTATTAG AGATGGGGTT TCACCATGTT

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38881 AGCCAGGATG GTCTCGATCT CCTGACCTCG TGATCCACCC GCTTTGGCCT CCCAAAGTGC
38941 TGGGATTACA GGCGTGAGCC ACCGTGCCCC GCCTACTTCA CTTTCTTCAT TTAAAAAAGA
39001 AATGGGGATA ATAGTACCTA TCTCATAGAA TTATTGTAAG AAGTGCATGC AGTAATGCAT
39061 GTAAGTAGGT GCTCAGAAGA GTCGGACACG AAGTAAGTGC TTTTATCATC CTTATCATAA
39121 TTTTCATTAT CAGAACAAGG AGAGACCAGG TAGAAAATTA TTGTGATTCT TCAGGTCTGG
39181 AATACTAGAG TAGCATCCCA AATGAAGGCA CCATTAAACT TTGCAAACTCT GTATGACACC
39241 TTCATGCCAA TTAGAAAAAA CACCTCTTCA CAACCCCTTT CAAGATATTT GCCTCCTACC
39301 TGCTAAAAAC ACCCATCATA CTACCCACAG ATAGCCATGA TGCTTTTTCT GGGACAGGTG
39361 CCTCTTCCAT TCGTGCAGTG TACAGCCTTC ATAGCTGTGC AACTCACATC ACAATCAGAT
39421 GGAAGAATCC CCAAGGCTTG GTGACAGATG AGTTACTGGG TAACACAGAG AGAGGATTCA
39481 AAGGAAAAGT TGAACGGGTC CAGAAAATGC ATAGATACAT GTGTAAAAAT CTGGTAAGGT
39541 TATGACTAGC CACGTCCCAG GGTTCAAAGC TTTTCTCAGA TGTTAAATG AATCATGTAA
39601 GTCCCCCAA TTTAAGGAGT CCTCTTCCAA AAATAGGAAA TGAAATGACA TAGGTGTATG
39661 TCTCTGAGGT GACGGAGGAA ATGAAGGAAG CCTCTAGATG CAGCTTGAGG TTCATGAGAG
39721 ACAGTTCCAG GGGAGAGGTC ACAGTAGGG ATCACC GGCA TGCAGGAAT CAGAAACCTA
39781 AATGGGGAAA TCTTTTTGAG GAAATGAACA GAGAAGGCTA AAATCAAGGA GTTCGTGAGG
39841 CAATTTCTAT GTTTAGGTTT AACTCTCTCC TGAAACATGA AGAGCTCATA AATGCACTCC
39901 CTCTTTGAGT CTCTAGTTTT GTCTCCTTCC CACAGTGAGT CTGCAGGCTG CGTGTCACTC
39961 ACGTTCAGCT AAGACGTAGT GCCCCATGGC TCCTCCTGTG GAGACAAGAG ACCCAGGAAA
40021 GAGGCATCAC AAACCTAGGC ACCATCTTGC CTCTTCTCTC TTCCTTATTT TCCTCATTCA
40081 CCCATCTCAA TTTAGACCTG GGCACATTTG GATTTCAAGA ACCATTATCT CTCATCTGGA
40141 AATGCTTATT GGCTTTCTAA CTGGTCTCCT CACCTCTCAT CTAACCTCTT AACAAACAT
40201 TCACCATATA AGGGAGATCG TGGTCTCCTT TTCTTAGGAT CCTTCAATGA CACCCAGTG
40261 ATCATAACCC AATATCCCAA AAGACCCTTG GACTCTGTAT GAGCTGGCTT CTTTCTGATT
40321 CTCTTTTCCC TACACCACAG ATGTTCCAGG GGTAGAAATG CATAATTGGT GAGTGATAGC
40381 TAAGCAAACT CAGGGTTAAG GTACAGTAAT TATTTCTAAT CTCCCAGTAT GCCTTATACT
40441 CTCCTACTTG GCATGGTTGC TCCGTCTGTG TAGACCTCCC ATCATCTTCA ACCTCACCTA
40501 ATGGAATCCA GCTTCTCCTT CAAGATCCAG AAGGCTATCT TGATCCCCAG CTGAATGTGA
40561 TCATTTCTTC CTTTGACACC CTAAGCATT TCTTCTGCC TGCTTTAGGA CCTCATGGGG
40621 TCTTCTTTAA CTACATTTAC TTGCTATCAA TTTTATTCCC TACCAGATTT GGGTTCTGAG
40681 AATAGCCACA GTGACTTCTC AACCTCAAAG CCCCTGTACT ACCTTAAACA GCTCTTGCAA
40741 AATAGTAGGT GCTCTGAAGA TGTTTGTTGA ATTAGAGACT TTCATTCTGG GGAGAACCAT
40801 TATTTTCTGT CTCCCAGGGA GCTGCTGGTG TCCCCAAGA ATATAAATGA GAAAAATGCT
40861 TCCCATGGAT GCCAGATCCC CTCTGCCCTT CTTCCCCTG TGCCCTGGGG CAGAGGTACT
40921 AAGAGACTTC CCCCTTGTTT CTACTCACTT GAACCCTGCC TCTTCTTAA TATTATGAAC
40981 AAAATTCCAA TGAACAAGAT GACGACAAA ACAGCAATTC CACTGATGAC TCCAATGACT
41041 AGGGTGCCAG ACGGTGAGGG CTCTAAACA GAAAAAGCAA GTTAAAGCCT TTGATTGCCA
41101 CCCTCAGCCC ACCCCCTAAC AAAGAGCAGA TCCTCATCTC ACTGCCATAA TTACCTCCTC
41161 AGGCACTCCT CTCAACCCCC AATAGATTTT CTCAGCTCCT GGCTCTCATC AGTCACATAC
41221 CCCAGATCAC AATGAGGGGC TGATCCAGGC CTGGGTGCTC CACCTGGTAC GTATATCTCT
41281 GCTCTTCCCC AGGGGGTACA GCCAAGGTTA TCCAGCCCTG GTAGGTCCCA TCCCCATTGG
41341 GCAATACGTC TTTAGGTTCT AACTCCTTGG CATCCATTGG CTGCTTATCC TTCAGCCACT
41401 TCATGGTGAT GTTCTGGGGG TAGTAGTTCA AGGCCCGACA CCGTAGAGTG GTCACTGAAG
41461 AGGTCACATG ATGTGTACC TTCACCAAAG GAGGCACTTG ACAGGAAAGA GGAAGGATGA
41521 GGAGAGGGGA TCTGTTTACC CTTGCCAGGA AGACTGGAAC TTTCACTTCC TTCTATAGGT
41581 TGGAGGAAGG AAATACCCTT TTCAGAAAAA AACAGCTAC AGGAGAGACA CCATTTTGTG
41641 TCCTAAGATT GGA CTCTAAC ACAGTGTAC TTGGAGAGCA GTCAGATCAG CTTGTTCTCC
41701 TCACATGTAA ATATACATAT CTGTTACCCA TGTTCTTTGT TCTGATAGAT AAAATTGCCC
41761 TTTATGTGCA TTGAAAATGA TTGAATACAG ATGGTCAGTT TCACCTGGGT CAACCTAGGA
41821 GGCATTGTTA TAAGAAGCGG ACTTGTAAAG TAGGTAGCTT CAGTGATTAT TGCTATGTTT
41881 TATGAAAGAA ACTTTTAACC TAAAGGATTC TTCTACTCTG ATAAGTGGCC TCACCTGATA
41941 TTTTGTCTTG GTATTCATAT GATAGCTGAG ATCTCTGAAT TCTCTTTTTT TTTTTTTTTT
42001 TTTTAAAGAT GGAGTCTCAC TCTGTGCTT AGGCTGGAGT GCAGTGGCGC GATCTTGGCT
42061 CAGTGCAACT TCCGCTTCCC AGGTTCAAGC GATGCTCCTG CCTCAGCCTT CCAATTAGCT

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42121 GGGACTACAG GTGCGCATGA CTGTGACCAG CTAATTTTGT TATTTTTTTA GAGACGGGTT
42181 TCACCATGTT GGTCAGGCTG GTCTCAAACCT CCTGACCTTG TGACCACCCG CCTCGGCCTC
42241 CCAAAGTGCT GGGATTACAG GGGTGAGCCA CCGTGCCCGG CCTTGACATT TCTGAATTTT
42301 TAACAGGTAT AAATATACAA AAGATTATTG GTTAAATAAA AAGCAAGGGC CATAGACACT
42361 TCCCTTTGAG CCATATGCAT GGAGAAAAGA AATTAAACCC ATGACTTGTG GCTGTCTCAT
42421 ACATCTCAAT TATAAGGTAG AGACTCTAGG ATTGAGAAAG TCCCTTCCCA GAATTTGGAG
42481 AGGCACACAG CCTCAGCCAC CTCTGAAACT CCAACCAGGG ATTCCGTGCC CTGCAACCTC
42541 CTCCACTCTG CCACTAGAGT ATAGGGGCGA AAGTGTGTTT CCACCATACC TTGTTGGTCC
42601 AAAACACCTC TCCCCAGCTC CAGCAACTGC TGCAGCTGTG CAGGGCAGTC CCTCTCCAGG
42661 TAGGCCCTGT TCTGCCTGGC CCGAATCTTG TGCTTTTCCC ACTCCAGCTT GGTGGGCCAG
42721 GCCCTGGGTT CTGCTGCTCT CCAATCCAGT GTGTCAGGGC AGAATTCAAG GTGGTCTGCTC
42781 CCATCATACC CGTACTTCCA GTAGCCCTCG GTACTGTTGT CTCTTGTCAT TTCACAGCCC
42841 AGGATGACCT GCAGGGTGTG GGACTCTGGA AAAATCCCCA GCCTTGTTAA CTGCAACCAA
42901 AGGAATAGGT CCCTATTTCC ACCATCCCCA AGGACCAAAT GATCTCAGGA AGCAAATTCC
42961 TTCCCTCTTC CCTGCTCCCA CAAGACCTCA GACTTCCAGC TGTTTCCTTC AAGATCATG
43021 AAAAGATGAA AAGCTCTGAC AACCTCAGGA AGGTGAGGCC CCTCTCCAC ATACCCTTGC
43081 TGTGGTTGTG ATTTTCCATA ATAGTCCAGA AGTCAACAGT GAACATGTGA TCCCACCCTT
43141 TCAGACTCTG ACTCAGCTGC AGCCACATCT GGCTTGAAAT TCTACTGGAA ACCCATGGAG
43201 TTCGGGGCTC CACACGGCGA CTCTCATGAT CATAGAACAC GAACAGCTGG TCATCCACGT
43261 AGCCCAAGC TTCAAACAAG GAAAGACCAA GGTCTGCTC TGAGGCACCC ATGAAGAGGT
43321 AGTGCAGAGA GTGTGAACCT GGAGACAGAG CAACAGGCCCT TAACCATGTG TAGTAGGAGG
43381 GGAGCAGGAT GTTGAGGCTC CACACACCTG CATCAACTCA TACCATCAGC TGTGTCTGGT
43441 CCTCATTTTG TGAAGGGTGA GTTGCACTCC TGTCTTTCTT CCATATGACA GTCTGGGTG
43501 CTCTTTCTCT GTGTGCTTTT CTCTGCCACA CGTGGCTGCC ACCCCCTCAC TGCCCCCAGA
43561 TCCTATTCCA ATACTCATGA TTAGACAGAC TCCACTAAAG CTGGTGGATT CTAGAAAATG
43621 TTAAGGTGTG TCTAGCCATG GTAGTTGAAC TCAGGAGTTG GTGCTCAGGG CAAATTAGAC
43681 CCAATCCTG AGGAATAATT CCTTCAGTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT
43741 GAGACAGAGT CCACTCTAT CACCCAGGCT GGAGTGCAGT GGCACAATCT CAGCTCACTG
43801 CAACCTGCAC CTCCTGGGTT CAAGGGATTG TCCTACCTAA GCCTCCTGAA AACCTGGGAC
43861 TATAGGCGTG CGCCACCACA CCAGGCTAAT TTTTGTATTT TTAGTAGACA TGGGGTTTCA
43921 CCATGTTGGC CAAGCTTGTC TCAAACCTCT GACCTCAAAT GATCTACCTG CCTCAGCCAC
43981 CAAAGTGCTG GGATTACAGA AGTGAGCCAC CGTGCCCGAG CTTGGTCTG AATTCTTACA
44041 CTGAACTGCC TATGTGGCCT CACCACTTGG AAGCCTGACT GGAATCTCAA ACTTAACATG
44101 TCCAAATGCA GATCCTTGAT TTACCCCAA CTGCTCTTTC CTCTGCCTTC ACCATCTCAG
44161 AAATGGCATT GCCAATTACC CCACTGCTCA GGCCAATAAA ATTAATAATA AGAACAAAGT
44221 CAACCTTAACT TCTTCTCTT TTCAGGGGGT CAGGGGAGAC AGGGTCTTGC TCTGTCACCT
44281 AGGCTGAAGT ACAGTGGCAC AGTCATGGCT CACTGCAGCC TCAACTTCTG GGGCTCAAGC
44341 AATACCCTCC ACCTCAGCCT CCCGAGTAGC TAGGATCACA GGTGCATGCC ACCACACCCA
44401 GCTAATTTTT GTATTTTTTG TAGAGAAGGG GTTTTGCTGT GTTGCCCAGG CTGGTCTTGA
44461 ACTCCTGAGC TCAGGAATCT GCTCTCCTTG GCCTCCTCCT TGGCATGAGC TACTACACCC
44521 AGCCAATTCT TCTCTTTCTC TCACACAACA TAGAATCCTT CAGCAACTTC CTTCAGAATA
44581 TATTCAGGAG ACAATGGTTT GTCACTCCCT TTTCTGTTCC CACCCAGCCC ACTCCACTAC
44641 CTCTTGCCCTG GACTGTGTAA CAGCTTCCTG GCTGGGCTCC CTGCTTTTAC TGTGCTCCC
44701 TTCACTCTGC TTTCCACATA GCAGCCAGAG CAATCTTTTA AAAGCCTGTG ACAGATCACT
44761 GTTACTCCTT GGCTAGAATT CACACCACAG CCTACAGGCG CCTGCACAAC CTTGTTTGTG
44821 GCTCCTCTTC TGAGCCCAT ACCTACTTCT TGGCCTCTAC TCCCCAGCAC TACTTGTTTA
44881 TTTTTTCAA CCCGAGCTTC TTAACCAGGA GTTTGTCTAC TAGGTGACAT GTGGCAAAGT
44941 TTAGAGACAT TTTTGGTTGT CAAGACTGGG GGAGTGCTCC TAGCACCTAG TGAGTAGGGA
45001 GGACAGGATA CTGCTAGACA TCCTACATGC AGATGGTAGT CCCCCTTCCC ACCCCACGCG
45061 CGCCCCCCCC CCCACACACA CACACATGAG TAGTGCTGAG AAAACCCGCT TTTTAATCCA
45121 ACTTGCCAGG CCCACTCAGT TTGCCTGGGA AATACTGCTC CCAGTCAATA TCATTCTTAT
45181 TTCCTTCATG TCTCTGCTCA AGTGTCAGCC CCAGAGTGAC TTGCCCTGAC TTCTCTGCTT
45241 CTCACAACAC CCATGATTTT CTGATGTTGT ATATCTTTCT GCTCATTTGC TTAATTGTCAT
45301 CTCTCCCACT AGAATGCAAA ATATCAAAGG GTAAAGACTT GTTCCCTGCT TCTCTCCTT

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45361 GGGGCTTGAA CAGTGCAACA CATGGCTGGG ACTCATTAC ACTTGTAAC AATGAATATT
45421 TCTGCTCAAC ATGAAATTTT ATTATCAAC CTCTAATGCA GTGTGATGTT TAAGAATCAT
45481 AGCTATGAAG TGGAGACATG AGCTCTGCCA CCAGAGCCCC GTGTACCATT GAATAAATTT
45541 GCCAGGAAGC AGGCCGTGCC ATGCCCTCATT CTTGTTCATGT GTAAATGTG GATACACGTA
45601 GTACCAAAAC TCAAAGTGCT GTGCTGAGGC CGGCCGTGTGA CCCACAGAAC ACTGTGCTAC
45661 ACTACAGGGC AAAATCACTG TCAACTAAGA TTAGAAGCAG CTGTAGTACT TGAATAAACA
45721 TCAGAAAACC AGATTATTTA TGTCTTTTGT AACCTGAAAA GAGTTATATA ATCTGAATTC
45781 CAGTTAACTT CTAGTAAAT AAACGTATTA TTAGCTCCTA CCTCCCTATG CCTAGTGAAA
45841 ATCAAATAAG ATCAGATATG AATGTAACCT AGAAGTGAGT GCATTGCTTA CATGTTTCATT
45901 ATCAGTACTT TGTAGAGAGG CCTCTTAATT ACACAGCACA TTGCAATCA ATAAAGCCTA
45961 GCCGAAAAGA GAATTGTTCA GTTCAAACGT TCAAAACTAA CATATACTTA ATTTTCCAGG
46021 CAAAAGAACA ATTGCCAAGA GTGGGGAAAG GCCCGAGGTA GGCTCTCTC AGGAGCCTCC
46081 CACCCTAGAG ACCTCCACCC CAGGTCTCAC CAAAAGTGGG TGGAAATGGTG AAGAATTCAG
46141 ATCCCCAACG CCACTCTTTC GCGCCCCCAG CGCCCAACGC ATTCGTTCTG AGGTGGAAAC
46201 CCCGTGCGGA TCCTGCTGTG GGTTCGTCGA GCCTTCTCGG CAAGCACTCA GGGAGAACT
46261 TCCTGTTTGG AGATGACTGG GGAAAAAAT GCACAGCTGA CATTGGAAT AAACCCGAGT
46321 TCCAGGTTCA AGGAGCCCCA GGCTTAGCTC AGCTCAAGTG AGGAACTACG AGATTTATTT
46381 AAAAGCATTG TAGTTGGGGG AAGGGAGTGG GCGGTTCCAA AAGTCACTCC GCAGAGCCGG
46441 GACAGCCGGG GGAGGGGGCA GGTCTGCGG CGAGGGACCC CTATCTGCAG TTCAGTGGTA
46501 GGCACCTCCT CACGGGGTCT GGACGCAGAA AGTAGGGAGA GGGGCTTGC GATTGGGTTG
46561 AGCAGGTCTT CCAAAGTTAG CAAACTCCCA AGCGCAAAGA AAAAGCTAGT TTCGATTTTT
46621 CCACCCCGC CGCGCCCTA GTTCGCCCCG AGCCCTCGGA CTCACGCAGC AAGCGCCCTT
46681 GCAGGACCGC GGTCTGCAAA AGCATCAGGA GGAGAAGCGC CGGCCTGGCT CGCGGGCCCA
46741 TTTCCCCAGC TCTGGCCGCA CGTCCCCGTT AAATCTCCGC TTCTTTTGGG GGGCGGGGAA
46801 ACGGGGATGG CTCCAGAAAT CACCCTACAG CTATTGCCTA GGCTCAGGAG ATGCCAGTA
46861 AAATCTCTG GTGAAAAGCA ACAGGTCTTT CAGAACTTTA GTTCTCTCTC TCCTACAGCA
46921 GAAGGTACCT GCTTGTGAAA CACTAGGTGA TCCAGTGTCC CCCTTGGTTT TTAAATCCTG
46981 AAGGGGTGTT GTTGATTGGG GAAAGTAGCT TCGCAATGTT CTGATCTGAA CTTTAGATAT
47041 TTAAATATTT ATGATTTTCA AAATTCAATC ATACATTTAA AAATTTTATC TCAACCTTAG
47101 ACCAACTTAT GTCTTATTTG ACTTAGAAAT ATAAAGCTTT TCAATTTGT TTTTGTATTC
47161 AAATTAATTA AGTCATAACA TTAACCAATT AGATCCTACT GAAACACGTT CCACAGCCTT
47221 CATAATTGAA TTATCTGACA AGTGTTCAC AAATTTTACA GTATTGGGAT TATCTGGAGA
47281 ATGATTAAAC ATATTGAGGC CTGCTCCTAA CCCAGACAC ACTGATTTAA TGGGTAATTG
47341 TTAGGTAGTT AGACATTAGC AGTTGGGAGG GGATGACAGA AGAGAGCGGA AAGGCTGTCA
47401 CTAAGACAGC CACTGGCCCA CCTAAATTCA GGCCCAAGAC TACCCTAATG CCACCTTAAG
47461 GGATGGAGTT TATGATAAAG TCTGTGGCCA AAATATCCTG GAGAAAGAGA AAGGAGGGTA
47521 CAGGTGGAAA TTCCCTAAGG TGGCACATGC CCAACAACAC AAAAGCCTGT CTTCAAGTTC
47581 ACCCCAAGTT CATCATGCCA TCATTATAAT AGAATTTACA TACAGTTTTG CCCCCCATC
47641 CCTGGGAGGC TTTCTTAAC AAATTATAGG TAAGACCATG CACAGTTTAA TTTTAGATTG
47701 TATAGCTATA AACTTCAATC AAATAACATC ATCCTGTCAC TCAGATACAG CCCAAACCTC
47761 AACTCCTCCC CACAAACCCC ATAAAGCAC CTTGAGCTCT GTAAAGAAGT GCTGAGTTCA
47821 CTTGCGAGAA ATAAGCCCGC TGTCCTCAG AGTGTATTAT TGTGCTTCAA TAAACTTTGC
47881 TTTAAGCTTG CATTTTGGTG TTAGTTTGTA GTTCTTTGCT CACTATCACA AGAATGAGA
47941 TTGCTGCTTC AGAGCTCCGG CTATAATAAT CTCCTCGGTT AAAGGATCCA TCCCAATGCA
48001 TAATCCACAG TAACAGTATG GGATGCCACC TGGGCAATGG GATTTTAAAA GCTTTCCTTC
48061 TCCCTCAACG AAGTTTGGGA ATTATGCTT TAGACATTC AAACAATATT AATAAATTTA
48121 ATACACCTGA TTTGCTCCAA ACCTTTACAT ATCTAGCAA TTCAACAGGC ATTATTTTGT
48181 TAAGCATGTA TGCAAAATTT GGCAATCAA GAAATCAA CAGGATATCA GGGCCTCGAC
48241 TGTAGGCAAA CAGATACAAT AACATTGGAA ACATGTAGAA TATTGATGAT GGGCACATTG
48301 GGGCTGATAG TACTATTCCT TTTTTCAT TTTTGGTAAG ATATAATTAG CATACCATAT
48361 AATTCATCTA TGTAATATGC AAAAATTGGC CCAGCTCAGT GGCTCAGCTG TGTAAATCCCA
48421 GCACTTTGGG CGGCCGAGGA AGGCAGATCA CCTGAGATCA GGGGTTTCGAG ACCAGCCTGG
48481 CCAACATGGT GAAACCCCGT CTTTACTAAA AATACAAAAA TTAGCCGGGC GTGATAGCAG
48541 GCAACTGTAA TCCAGCTAC ATTAGAGGCT GAGGCAGGAG AATCGCTTGA ACCCGGGAGG

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48601 CGGAGGTTGC AGTGAGCTAA GATCGTGCCA TCGCACTCCA GCATGGGAGA CAAGAGCAAG
48661 ACTTCATCTC AAAAAAAAAA AATTAGCTGG GTGTGGTGGC ATGCACCTGT AATTCCAGCT
48721 ACTCGGGAAG CTGAGACAGG AGAATCGCTT GAACCTGGGA GCGGAGGTT GTGGTGAGCC
48781 GAGATCATGC CATTGCACTC CAGCCTGGGC AACAAGAGCG AAACCTCCGTC TCAAAAATAA
48841 AATAAATAAA ATAAAATGCA AAAATTAATG GATTTTAGTA TATTTACAGA GATGTGCAAC
48901 CATTACCAAA ATTTTACATT TCTATCTCCC CAAAAAGAAA CCATGTTCCC CTAATTCAGT
48961 ACCCTTAATT CATCGCCTCC CAGATTCCTC CATTCTCCTC CTCCTCCCCT CCCAGCCCTA
49021 GACAATCTTT AATCTACTTT CTTTCTATTT GGAACATTTA GTATACATAG AGGCATATAA
49081 TATATTGCTT TGCCGTGACT GGCTTCTTTC ATTTAGCATA ATGTTTTTAT GTATGTTTTT
49141 CATGGACCAA TAATATCTAT TATAAGGACA TACCACAACA TATTTTATTT ATTCATTCAT
49201 CAGCCGATGG ACATTGGTTT GTTCTACTTT TATGGCTATT GGAATAGTG CTGTTATAAA
49261 CATTTATGTA CAAGTTTTTT TGTAGACTTA TGTTTTGATT TCTTTTGGTT ATATATCTAG
49321 AAGTGGGTTT GCTGGGTCAT ATGGTAACAC TGTTTAACCT TTTGAGGAAT TGCCACATTC
49381 TTTTCCAAAG TAAGCATTTT ATCCTCCTAT CAGCAGTGTA TGAGAGTTCT GATTTCTCTC
49441 CATCTTTGCC TGGGTTTTTG AATCAGGGCC CCAGATAGAA CAAAATGTG GTTATTCAGT
49501 TGTTCCACCA TCACTTGTG AGAAGACTCT TTTTTCATTG AAGTGTTTTG GCACCCTTAT
49561 CAAAATCAA TCTACCATAA ATGTGAGAGT TTATTTCTGG AGTCTCAATT TTATCCCATT
49621 ATGCTATAAT CTATAATCCT ATCTTTTTTT TTTTGTGACA GAGCCTCACT CTATTGCCCA
49681 GGTGAGAGTG CAGTGGCCCA ATCCCGGCCA CTGGCTCCTC CTCCAGGTT CAAGCAATTC
49741 TCCTGCCTCA GCCTCCCAAG CAGCTGGGAT TACAGGTACC TGCCACCATG CCTGGTTAAT
49801 TTTTGTATTT TTAGTAGAGA CGGGGTTTCA CCATGTTGGT CAGGCTGGTC TGGAACTCCT
49861 GACCTCAGGT GATCTGCCCC CCTCAGCCTC CCAAAGTGCT GGGATTACAG GCATGAGCCA
49921 CCACACCAG ACTATAATCC TATCTTTATG TCAGGACTAC ACTGTCTTGA TTACTATAGC
49981 TTTTGTAGTA ATTGAATTCA AGAAGTTTCT CAACTTCAAA TTTGATCTTT TTTTGAAGA
50041 CTATATTAGC TATTCTCAGT CTGCTGAATT TCCCTAGGAA TTTTAGGATC TATTATCAAT
50101 GTCTATTCTA TTTTGTGATA TGTTTTAATA TTTTCATAAG AAACTTTTTT CATTTAAACT
50161 TTTTTTTTTT AGAAAAATAG TGAAATCAG AATACTGGGG GTCAGGCGCA TTTAACAGGC
50221 AGAAGAAGAA TAAAAACTTG TCATATAAAC AAAAAAGAAA TGACCAATCA CATTGTGGAA
50281 GCCATGGAGT GGTTATAGGT GCCAAAGGCT GCAGAGAAAT GGTGTCAGAT ATACCTGAAA
50341 ATTGTCCATT GTATTTGGCC ATTAAGAGAC TTAGAAGACT TAAGCCATAG ATTGCTCAGT
50401 GAGACCCCGA GGGCAAATGG TCTGAAGGTG AATAGATCAT TTCACCTTTA AGAGAGCAGG
50461 TAGGAAGCTA TAAATCCAAG ATTAAGAGT TGACTGAACT GTTAAAGAAG AAACCTTAAT
50521 CTTGAGCCAC CCTATCCTTG CTCCACCTTC TGCTGCAAGC AAACAGAAAT GCTGAAATTC
50581 AACACTCACA AAGGCTGGTA AGCTGGAAAT GACAAAAATT ACTCCTGGGA AAGTCAGATT
50641 TAGAATTAGG CCATATTTGT TGGGGTTCAG ATTTTCATGT ACACTTGGGA AAGGGTTTAG
50701 CTTATAGGCA CATGCATGAA GGGAACTGGT ATAGGGCTGT GTTCATAAGG TCAAGAGTTG
50761 AAGGCCAGGC ATGGAGGCTC TTGCCTGTAA TCCCAGCACT TTGGGAGGCC GAGGCAGGAG
50821 GATGGCTTGA GCCCAGGAAT TCAAGACCAG CCTGGGAAAC ATAGGGAGAT GCTGTCTTCA
50881 CAAACAATT AAAAAATAAA ATTAGTCAGG TGTGGTGGCA CACACTTGTG GTCCCAGCCA
50941 CTCAGGAGGT TGGGAAGATC ACTTAAGCCT GGGACATTGA GGCTGTAGTC AGCCATGATA
51001 GTGCTACTGC ACACCAGTCT AGGTGACAGA ATGAGACCCT GTCTCCAAAA AAAGAGCTGT
51061 ATCCACATCC CAGGAAAGTG GTTGAAGATC TACTTTTCTC TGTAACCTA ATAAAGAATA
51121 GAGTGACAAA TGTGTGTTGT GGAAAGAAAT GGGGTGAGAG CTACGTAGAT GCAAAACAAT
51181 ACATCCCCAC ATACCACTTG TTAATCATCC TTTTCCACCC ACTTATGGGA TGAATTGCAT
51241 CTCCCCAAAA GATACTCTGT CCTAACCTTC AGTACCTGTG AACCTGACCT TATCTGGAAT
51301 ACGGTGAGTT CACTGGTTAA GAAGAGATTA TAGTGAATA GGGTGAGTCC TCCAACCAAT
51361 GACTGGGGTC CTCACAGACA CAGAGGGATG ATGGCCAGGT AGAGATGGAG GCAGAGATTG
51421 GAGTTATGCT GCCACAAACC AAACACAGGA AGCTGCTAGA AGTGGAAACA GGCAAGAAAG
51481 AATCCTTCCC CAGAGGCTAC AGAGGGATCT TGGCCCTGAT AATACCTTGA TCTCAACTGG
51541 CCTACGTAAC TGTGAGAGAA TAAATTTCTT TTGTTCTAAG CCACCCAGTT GATAGTACTT
51601 TGTTACGGCA GCCCTAAGGA ACTTGATATA CATTCTTTTT ACTGTCATAG AAGTTTGTAA
51661 TCTTTTAAGT AGGTCTGTAC CCTTCCTCCC AGTGTCACG CATGGAATTC CTCCTCTGT
51721 GCCTTGAAAA GTGAAAGGTG TTTGAACTGG TAATGAAAGA AATCTCAGCA TGAGGCCAGA
51781 TGCTGTACCT CACACCTGTA ATCTCAGCAC TTCGGGAGGA TGAGGCGGGC AGATCACTTG

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51841 AGGTCAGGAG TTCTAGACTA CTCTGGCCAA CATGGTGAAA CCCCATCTCT ACTAAAAACA
51901 AAAAATGTTA TCCTAGCCGG GCATGGTGCC TGTAAGTCCCA GCTACTCAGG AGGCTGAGGC
51961 AGGAGAATTG CTTGAACCCG GGAGGTGGAG GTTGCAAGTGA ACTGAGATCA CGCCACTGCA
52021 CTCTAGCCTT GGTGAGAGAG CAAGACTTGG TCTTAAAAAA GAGAAAAGAA AAATGAAATT
52081 TCAGCATTAT AGAATAAAAA TGTTTCCCCT TCCCCCACC CTTTAAAAAA GCAGAAGTCT
52141 GCATCATAAA ATGGTCTTTG CCAATGTTAT TTTTATTATA ACAAAGGAAT CTGCAAGGC
52201 TACCAGATCT CAGCAATTGT CACTATGTTT TGTAATAATC ACTTCCTAAA ATGTCTGAAT
52261 TGAATGCTTG TCTCATTAT TTGTTTCTCG TGTCACTATG CAATGGATAT CTGTCTTGTT
52321 AGTATAAATA TTTGTGCATT TTGTTGTTGT TAAAACAGCT TTTTGGCCT GTCTTCTTCC
52381 ACCTATGAGG TAATATAAAA CTCATGTTTA AACTTATTT TTGTAGGAGG ACAAGCTACA
52441 GACAAAACCC CTCAGACACT GAGTTAAAGA AGGAAGGGCT TTATTCAGCT GGGAGCTTTG
52501 GCAAGACTCA CATCTCCAAA AACCGAGCTC CCTGAGTGAG CAATTCCTGT CCCTTTTAAG
52561 GGCTTGCAAC TCTAAGGGGG TCTGTGTGAG AGGGTCATGA TCGACTGAGC AAGTGGGGGT
52621 ATGTGACTGG CAGCTGCATG CACCAGTAAT CAGAACAGAA CAGGGATTTT CACAGTGTTC
52681 TTCCATACAA TGTCTGGAAT CTATAGATAA CATAACCGGT TAGGTCGGGG GTCAATCTTT
52741 AACCAGACCC AGGGTGCAAC ACCAGGCTGT CTGCTGTGG ATTTCAATTC TGCCTTTTAG
52801 CTTTACTTTT TTTTCTTTT GGAGGCAAAA ATTGGGCATA AGACAATATG AGGGGTGCTC
52861 GCCTCACTTA TTCACCCCTT TTGAGAATCT CACTCATTAG TGGGAGTTCT CACTTTTATT
52921 CTCCTACCT ATGCTTCTT GAAAGACAGA TTGATAATGA TTCATATAGT ACCTTGTGTC
52981 TGAAGCATTT TGGTGAGCTA AGGTAGTGAT GAAGCTTTTT ATCATTTGGA GAAGTACAGG
53041 TAGCAAACAA GGAAGCAGTA AGCAGGTTTC TATTAATATT ATAACTCCTA TTATAAGAGT
53101 TTTAAATCTT CTTAGCACTC GGAACCATTT TTCAAACATG GCCCCAGAAA CAAATCCATA
53161 CCACACCTAC ATGGGCACAT GTGCCACTTT TGTCAATTT CTAATATGT CTTCAACTAC
53221 TTGCCCTTAA TCATCTATGT GTAGACAGCA ATTAGTAAGG TTAATTTCC TACAGACCCC
53281 TCCTTCAGTT GCTAGCAAGT AGTCGAGAGC CAATCCATTT TGATAGATAG CATTTTGCAT
53341 CTGAGTTTCT TGCCAGGCCA CAGTAGTCAG GGCTCTGCTG GTCTTATTAG TAATTATTTT
53401 TAAGACAGCT TGTAACCGTA TGATTCAGTT GAGCATGTAA ATGGGGGTCC CATATCCCCA
53461 CAAGCCGTCT TGTGCCCAAG TAGCAGGCCC ATAATATTGT ATGATTCTCT CAGGGGGCCA
53521 TTCATTATTT TTCCAATTTT CTATAGCTAT GCTTTTTTTT TTTTTTTTTT TTTTTTTTTT
53581 TTGCGGGAAG CATATACAGG GAAGCCCAGG AGTTTGCCTG TCTTTATGGG CAGTAGGAAG
53641 AAAGATGGTT TAATAGTGTC AATAACAA CTACCTGCCC ACTGGTCAGG TAATTTGGCA
53701 TAAGCTGTAT GCCCACATAT CCAGTATAAT CCAGTGGGGG CTGTCCAGTC CCGGTGGGAC
53761 TCTGGGTGGG TCCACACAGT TTGCAACTTT GGAATTTTAC TAAATAGATT TTTCTTAGTG
53821 TGGTTTGAAC TCCACTAGGT GGCTGTTTTT ATAGTACTAT TATACAGTTT TTGCCAAGG
53881 CAGCTGAGTC TTCCCACAGG AAGGGTGAAG TCCTTCCCCA CTTTGTCTAT ACAGTATTGT
53941 CTAATGATTG AGGCTTTTAG GACCCAGAAG TTATCAGGGT GAGTCTTTTG AGCTGGGAAT
54001 TTATCAGGAA CTGGGTCTGT AGGTACTAAT TCTCGTGCTT CCCATGGCCA TTGATCTCCC
54061 ATTACAGTTC CTCCACATAC ATACATAACA TGAAGTGACA TTGAGAGACT GGGCTACATG
54121 CTCAGCTAAT TGCAAAAACA AATTTCTTGT TTTTCTGGA ATTTCTAGTA CTGGCACATT
54181 CAGTTCATCA TAAGAAGGTT TGAAATACTG GCTCAGGGGA GCATTTATAA ACTTCTCCTC
54241 AAACCACCAT ATTTACTCAA GGATCCAGTC CAGCCCCAAC TATTTCTAAG GTTACACGAT
54301 CCCCTTTTTT CCAGTGAGAA TCAAGGGGGT TGGTTATTAC TAGTTCTAAG GGGTTACACT
54361 GACCACTGGT ACAGGAAGGG CCACTTTTCC CTTTCTGAAG GTGGACAGGA TTCTTTTTAT
54421 TTTTAAACCA AGTTGCCTAA ATGACACAAG ACCAGTATCT ACATTTATTT CCACGCAGTC
54481 TTAATTCATG ACAAGCGTAC TTATTTTCTG CCATATAGCC TCTTCTCTAA TGAACAGAAC
54541 CACATCCTAT TTCTAACTTA TTACTATTAA TGACAGCACA GGCATCAAAT TTCAAGGTGA
54601 CTTGTTTGGG CATTCTTTT TCTTCTGTTT TGGCTAACAC TTTACTCGTA TCGTTTATGA
54661 ACCCCACCA GTCCCTCAGTC CTCAATCTTA TTCAAAAAC TGTGGTCTGT GGAGGCTCAG
54721 ATGGGTGATA ACACACATCA GGTGGTCTAT TTCTGGGCT ACCTGCCTTG TATAGAATAG
54781 CATTATACAA ACAAGTTATT TTTAGAGTCT TTGTACACTT ATAATAACCA TAAATAATA
54841 AGACTGTAGC AACTTTTTGT CCTACCTCAG TGACTTGATG TATACACTGG GAACAGCCCT
54901 CAGTCTGAGG AAGGTTAGTT GAAGTCTTTA CTGTGCAAGT CCAAATTTTA AGGAAAATGA
54961 GTCCCTTGAT GAGTTTCTC ATGTTTCCGC CATGCATGGA CCAGTCAGCT TCCGGGTGTG
55021 ACTGGAGCAG GGCTTGTGT CTTCTTCACT CACTTTCAG GCGTTGGCGA AGCTGCCACG

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55081 TACAGCTCAC AGTCTACTGA TGTTC AAGGA TGGTCTTGGA AGTTGGGCCC ACTAGAATTA
55141 ACTGAGTCCA ATACCTCTAC TCAGTCACTT TCAACTGGGC TTTCTGATAC CAGGAGCAAG
55201 GTGGCAGGTT TTAGGGTGTT GCAAATTTCA ATGGTTATGC AGGGATTTTC ACATAGCAAA
55261 CTTTGGTACT TGGTTAATCT AGCATTGTG AGCCAATGAT GTATTTATTA AAGTCACCAC
55321 AGCATGGAGG GCCTTTAAGT TTAGGTTTTG TCCAAGAGTT AGCTTATCTG CCTCTTGTC
55381 TAGCAGGGCT GTTGCTGCCA AGGCTCTTAA GCATGGAGGC CAACCCTTAG AAACCTCATC
55441 TAGTTGTTTG GAGGCCAGC CTCGGCCAGG GCCCCACAGT CTGGGTCAAA ACTCCAACCG
55501 CCATTTTTTC TCTTTCTGAC ACATAGAGTG TAAAGGGTTT TGTCAGGTCA GGTAGCCCCA
55561 GGGCTGGGGC CGACATGAGT TTTTCTTTTA ACTCATGAAA AACTCATTGC TGTGTTGT
55621 AATAGATGTA GTTTATCCAA TCTACATTTT TATTAACGTG CACCCACCAA AATATTGACT
55681 CAAATCCTGC AGCTATTTGA TTTTGGGATT TAAATTGATC TGCTATTCCC TGTGGGACTC
55741 CAATTGCATC TAAATAGATG TGAGAGTTGA AAGACACATA AGGGTCTTCT CTGTCTTTAC
55801 GATGCTTAT TTTTCTCCC TCTGGTTGAT GAAATGCTAG GGTGAAAGGG ATAGCCAAC
55861 GGAATAAGT ACAAGTGCCG CTCCAGTTAT TTGGCAGAGT GCCCAGTAAA GGTCCACCAC
55921 AATACCACCA CACATCCGCT TGGGGATGAA CAAAGGCTGA CTGATTGAGA AGCTCCTGAA
55981 AATTCCTAAG CTCACTGCAT CCCTTCAGGT CTCCAAGGAA TGCTAAGTTT CCTCCCTGTC
56041 ATGAGAGACA AGAAGTGAAC TTAGTTTTGG GAGATGGAAG CTGGATGGCC CTCAGGGGTT
56101 GACCTGCAGG GTGCTGGACT TTGGGATATA GCAGAGAGAG CTTGGCACGA CTTATTACTC
56161 CAGGCTGTAG CATCCTGGAA AACAGTTACC ATGCAGCCCA TGCCTGGTCA ACAGGAGGAC
56221 CACCTTAGTG GAAAGGGGAT AATCTGGCCC TCTGGCCTGC CATGTGCACA AGCATAACAA
56281 TTGGTTTTGT TTAATGTGTG GACAGAAAT TTGATCCATT CCAACTGGGC ATTTGCATCT
56341 TGGTATCCTG CTTAATTATC AAAGTTTGT TTAAGTCTT AACTTCTATG ACCCTCTAGT
56401 AAAATGAATG TATGATTTTA GGAAATTACA AAAACCGGTT GGGGCAGTCC ATCCTCGCTC
56461 TTTAGTGGTC CACACAACAT TCGACCAACT ATGGCATAAA AGCTCTACAT CAGGGGGCAA
56521 GACTCCTCGT TGACACTGGG GTCTTTATG AAATCTCTCT GGATTAAATG GTCTCAGTTT
56581 ACTAAGGCTC AGTCTGAGGA GAGTCAGGAG GGACAGAGGT ACTTTTCTGA AGTACAGAGA
56641 TGTCTTCGAC TTGGCAAGTC CCCACAGGGT ATAACAAGGC AAGCATTAAA TTCAATAGTT
56701 TGAGGCAAAA TTGACTTGGT TATGTTAATA ACTAGATGGT CAGAAATAGA GTGAGGGAAG
56761 AAGAAGAGT AATAGAATAG ATGAAGGAGT TAAATTTTTC TTAGCTTTAG TTTGGTAGGG
56821 TTTTCCCTG GGAATATGGC CCATGACTCT GGAGGGGGTG GCACCTTCTT GACTCGGGTG
56881 TGATGAGTCC ATCCCTTTT CACCGTATGA ACAACAGTCT CGGTGGTTAG CAGCACAAGG
56941 TAGGGTCCTT CCTAGGCTGG CTCAAGTTT CTTCTTTCC ACCCTTTGAT GAGAACATGA
57001 TCTTCAGGCT GGTGCTGGTT TACAGAAAAT TCTAGGGGTG GTACATGTGC TAAAAGACTT
57061 TTAGTTTGA GGGAAAGGAA AGTGGAAGAT AAACCAAGTA TATACTTTT AAGAAGTTGA
57121 CCTTTGTTT TAAATGTGGG GACATCAGCA GTGGACTTTA TAGTCCTGG TGCCTTCTTA
57181 CTGAGAAATT TCCTTTAGCA CCTATTTT TTAGTTT TTA GACCAAAGAA AGTCAAATGC
57241 CATTTTATAT TTGACAACGC TTCTTGATG TTTATACCAG ATAAGCTAGA TTTCACCTT
57301 ATATTGGTGT GTTATTAATG TTAACCTTAG TTTTAATAAA ACTCTGTAGA CATATTTATT
57361 TGATTTTAA TGCTGACCA TAAGGTAGA TTTTATAGA CTTTCTTTA ACCTTTTATA
57421 ATTTTGTGA AAGAACAGG TAGTGCTTTA AGAAAAACCC GTTGTGTTT TATTTTAATG
57481 TTCAGTTCAC AGAAAACTG TATGATACCC CTTAACTTTA GCCAATATGT TTAGACACAG
57541 AATTTTCTT ACAATTAAGG TTTCAAACT TGCTTAAACC TTCAAAACAA TTTTGTAAAC
57601 CTTTAAATGT AGGTAAAAAT CCACATCTT ATGCATCCTC ATAATCCTTT TACCAAAGGT
57661 ATATTTTACT TTCCTTACAT ACCTTGACA TAACTGTTT ATTCAATAGT TTTACATTTA
57721 GAAGGAGGCC TAATTACTTT TAAATTATAC AACATTTCTT GCATAAATTT ATTTTCTTAA
57781 CACACATTTT TTTCTGACT TTCACAGACA ATCTTCGAC ATGCCCAAC TTTCTGACTT
57841 ATTGCAACA TCCCTTCTT TAAACAATA GTTAATTTAT CTCAGGACAA GGATTTTCCA
57901 TACAACATTC TTTTATAT AAATTCTGCC TCCTCTTTAT TTCTTTT TTTTCCGAG
57961 GATGATAACC ATCTTTTCC AAAGCGAACT TCTTTATGT CTGTGGACTA GACTGTCTAA
58021 GGCCACAAGA TTAGAAGTTA CTATAATACA TGTTACACTG TTAACTTTTA GCAAACCTTA
58081 CTTTGTGTA AAACCTTGT AGTTTGGGAT TTCAATTATC CTTTGCTATT AATAAGACCT
58141 TATTTAGTCC AAATTAACCT AGAATTGGTA TAGATGGCTT TTTTTTTTT TTTAATTACC
58201 TGGGAGGAAC CATCTATCCT CCTGTCTGA AGGGAGTTCC TCCTAGGTCT GGTGAGGCT
58261 TTGTATGGTA ATTAAGATTT AGATCCCCTG TTAGGAAACC TGCCGGGTTA AGAGAATTTT

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58321 CAGTGGTTAA TGTTAAATCA TCTTCTTTT TCTTTTTTCC TTAGGATACT TCTGAACCGG
58381 TGAGGTGTGC TCACAAATGAG GTTTCCTGTA AAAGTTATTT TTTTACTTTC TTCTGTTAGC
58441 AAAGCAGTTG CCGCTACAGA TTGAATGCAT TTGGGCCATC CGCGGGTTAC TGGGTTAAGG
58501 ATTTTGTGATA GGAAGGCCTT AATGCTTTTG GAATATGCCC TGACAACAAA GTGCCAGTTC
58561 CTTCCCGGTG TTCAGCCACT GCGTTGATCC TCCACGAGGG CCTGCCACGT GCTGCTCTGG
58621 TGAGGCGTTC CACCGGGGCA ATTGCCTACC TGGGAGCGCT CTCCAGATCT GTGTGCTCA
58681 AACTGGCTGG AGTTCCCCGT AGGGATGCTC CACAGGGCAG GCCTAAGTCG CCTAAGGGGC
58741 TGCTTGACC GTCCGTTAAT CACCTCTGTC TCCAAAAACC AGCTCCCTGA GTGAGCAATT
58801 CCTGTCCCTT TTAAGGGCTT ACAACTCTAA GGGGGTCTGC ATGAGAGGGT CGTGATTGAT
58861 TGAGCAAGCA GGGGGTACGT GACTGGGGCT GCATGCATCA GTAATCAGAA CAGAACAGAA
58921 CAGCACAGGG ATTTTCACAA TGCTTTTCCA TACAATGTCT GGAATCTATA GATAACATAA
58981 CCGTTAGGT CAAAGGTCGA TCTTTAACCA GACCCAGGGT GCGGTGCCGG GCTGTTTGCC
59041 TGTGGATTTC ATTTCTCCCT TTTAATTTT ACTTTTCTT TCTTTGGAGG CAGAAATTGG
59101 GCATAAGACA ATATGAGGGG TGGTCTCCTC CCTTAATTTA AACAAAATTT TCAAAGTCCT
59161 ACCCCAAGTA AATTGGCAAA TATTAAATAA GTTATGGCAT AGAAAATAAA AATGATTGTA
59221 AAAGGCGTAA AGATATTTCT GTGGGGAAAA CATTGTTC TAAGTTATCA GTTAAAAATC
59281 TGTGAAAAAT AACCCTAGA GACCTAAAG TACCCAGGGG CTAATAATAA GAAGGGAGGA
59341 ACACCTCTC AGTCCCCACC GTTACCTCCC CAGAAGGGAA GAGGAAGAGG GTGACTCCAG
59401 GAGAGCTGTG GTCTCCCTC CCCATATGTC CACATATACC TGACCTCCCC TCCCCAAAT
59461 ATATACCCAA TATCTCTCCC ATATATACAT ATTTATCTGA CCTCTCCACA TATGTATACC
59521 TAAACTTTCT CTATATATCC ACATATACCT AACCTCTCA CACACATATA GCTGACCTCC
59581 AGTGGAGGAA AATGGGGAAG AGAGAAGAAG TTATCAAAGG ATAAATCTAG GTCATACTCA
59641 GAAATGTGAA AAACAAAAAC CACACACAGA AAAAAAAAC ACACACAAA AAGAAATTGA
59701 TAAATTTGTT TGTGTCAAAA TTAAGAAATC CGTTCAATG AAGGATCCCA AAGGATGAGT
59761 TAAGACACTG CTGTAAGGAT GGTAGAGAAT TAAATGTCTG AATCAGACGA AAGGATGAGT
59821 AATTAGAATG CACAAGGCCA AGAAGAACAA AACAGAACT CCACATAAAA AATGTATGAG
59881 GCCGGGCGCG GTGGCTCATG CCAGTAATCC CAGCGCTTTG GGAGGCCAGG GCGGGCCGAT
59941 CAGGAGTTTG AGACCAGGCT GGCCAACATT GTGAAACCCC ATCTCTACAA AAAATACAAA
60001 AAATTAGCCG GCGGTGGTGG TGGGTGCCTA TAATCCCAGC TACTTGGGAG GCTGAGGCAG
60061 GAGAATCACT TAAACTCAGG AGGCAGAGGT TGCACTGAGC TGAGATCACA CCATTGCACT
60121 CCAGCCTGGG TGACAGTGTG AGACTCTGTC TCAAAAAAAA AAAAAAATTA TATATATATA
60181 TATATATATA TATATATATA TATATATAA TGAATAAAT GAACAAGAAA TTTAGATACA
60241 GGAAATCCA AAGCACTTGG TAATGAAAGA AAGGTAAAGT GATGTCTCT TTTGCATTTA
60301 AAAGAGAGCA TTAACAAATT AGAGAGCTGA ATAATGCTCA GTATTGGTGT GGATATGGAG
60361 ACTCAGGAAT CCTCATACAC TGCTGATGGG AGTGCCCACT CCCTGGGAAT ATTTTCCAAA
60421 TATCATCTCA AACATATCCC ATAAAGGTGA CAGGAAAGTG TGGGCTGACT GATATCCTTC
60481 ACTGAGAGAG GTGGAGGTAA AATGAAGTCA CTGCACAATA TAGAGTTGGA AGCAATGGAT
60541 TAGATGTCCA CATAGTTACG TGAAGAATC CGTAAGATAC ACACACACAC ACACACACAC
60601 ACCTTTGTGT ATATTGTTCC TGGCAGGTAG GCATGGAGGT TTAGAGGCTT TCTACATCAC
60661 ACCTACTGCA CACAGTAAAT GGCCAGGCTG AGCACTGACT TCCATGAAGG GAGATTGAAG
60721 GTAAGAGATT GAAGATTGTT CCCTGGTCTG GGACCCTGCA ACTGAATATG CAGAAAAAAG
60781 TACACCCCGC CACCCCGCTT CCCATCTTTC CTACCTGATT AGAATAGCTT TTTAGAAAAA
60841 CGTTGGCCAG GGGTTGTGGC TCACACCTGT AATCCCAGCA CTTTGGGAGG CTGAGGCGGG
60901 CAGATCATCT GAGGTCAGAA GTTCCAGACC AGCCTGGCCA ACATGGCGAA ACCCCATCTC
60961 TACTAAAAAT ATAAAAAATT AGCAGGGCAT GGTGGCACAC ACCTGTCATC CCAGCTACTC
61021 GGGAGCCTGA GGCAGGAGAC TCACTTGAAG CACAGTGATG GAGGTTGAAG TTAGCTGAGA
61081 TCTTGCCACT GCACTCCAGC CTGGACAACA GAGTGACACT TTGTCTCAAC AACACAACA
61141 AAACCCACCA AAACCTTTAA TCTACCTATG GCCAAATGCC TGCTAAATG AGCACCCAAG
61201 AAGCAGTGT CAGGAAAGTC AGATGAATAC CCTAAATTA GATGCAATGT TGGCTGGTCA
61261 CAGTGGCTCA GGCCCTGTAA TCCCAATCCT TCTTGGGAGG CCGAGGCGAC AGATCGCTTA
61321 AGCTCAGGAG ATCGAGACCA GTCTGGACAA CATGGTGAGA CCGTGTCTCT ACAAAAACGT
61381 ACAAAAATGA GCTGGGAGTG GTGGCGCACA CCTGTAGTCC CAGCTACTCA GGAAGCTGAG
61441 GTGGGAGGAT CTCTGAACC CAGAAGGCGG AGACTGCAGT GAGCAGAGAT CATGCCACTA
61501 CACCCAGCC TGGATGATAG AGCCAGACCC CCATCTCCAG AAAAAAAT AAAGAGAGAG

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61561 AGAGATGCAA TATTTAGGGT TCAACAAGAC TGAACCTCTG ACTCCTTTCC CTACCTCTCC
61621 AGCATGTTAG ATTCTGGGTC CTTTCATCCTA ACCCCCTGTT CATGCCATAG CCACCCTGTG
61681 GTACCAACTT TGGAAGCCTG GATCTTCATC CCCTCATGAT AATGAGTGTC CCATTTCAGGT
61741 CTCCATGCTC AGCTTGGCAA GAGTATCTGT CTTCTCCTCA TGGGACGGTC ACATTACCCC
61801 AGCACTGACA GGTTCATTTC CCACTAGGGT GGCACCCTAT ATGGTCTGAG TCCAGGCCTT
61861 CCTGGTCCCT CAGTAATCTC AGCATGGTAG CACAATCGAA AAGGGCTAGG CACGGCAGCA
61921 CCATTTCCCA CCAAGAGGTC TGATGGCTCA TCACATAGAC TGAAGGAGAT TCTGAAGAGC
61981 AGAGGTGGAA TGAAGAATGA ATCCTGGGCT CTGCTCTTCC TAGGCCTGTC TTCCTCTCTC
62041 CCGAGATGTT AGCTAACTCA TGAGAGCCAG AAACCAACTG CAGGCTGGCC TCAGGCACTT
62101 AGGTAGTGCT TCAGCCTCAG CAGTCCACAT TCTAGGAACC CTCATAATAT GGGTTGAAGT
62161 ATGCATTCCC ACAAAAATAA AGTTGTTGAA GTCCTAACCA CCAGTACTGA AATGGGAAAA
62221 GTTCCCTTGT CCCGCTCGCA TGGCATGTGA TAGGAGTGTG GCTAATTTCT TCAGTGCCTG
62281 GCTGCTCAA CCTCTAGGGG AACAGTAAGA CGGGCAGGTT GTGGGTCTCC AACCCCATGA
62341 CCCCACCACA GTGTCTAGGG TTGAATGTTT ACAGCTCCTG AAGCCACAGT GGGTGTGTGT
62401 TACAGGGTGC TCTTTTAGTT TTGCCATTTA TAGGCAGCTG GTGTTAACCA ACTCAATTAG
62461 ACCGTCTACC TTGTCCCAAG GACAGAAGAA GGCTTTCTGT ATCCCAGGTT CTTGCCCTTG
62521 TGTACCGGAA TAAATCAGAC CACACCTGGG CTTAGAGAAA GAGTGCAAGG TTTTATTAAG
62581 TGGAGGTAGC TCTCAGCAGT TGGGCAAAGC CAAAAGTGGA TGGAGTGGGA AAGTTTTCCC
62641 TTGGAGTCAG CCACTCAGTG GCCCAGGCTC TCCTGCAACC ACCCCAGTCA AATTCCGCCT
62701 CATTTTGCCA GGCAAACGTT TGTTGTGTGC TCTTCTGCCA GTGTGCTCCC CTGGACGTCC
62761 AGCTATTTCGT GTCTTGTGGC AGGCCAGGGG AGGTCTTGGG AAATGCAACA TTTGGGCAGG
62821 AAAACAAAAA TGCCTGTCTT CACCGTGGTC CCTGGGCACA GGCCTGGGGG TGGAGCCCTA
62881 GCCGGGGACC ACGCCCTTCC CTTCCCACT TCCATATCAT TTAAAGGGAG CATGCCCTTC
62941 CTTTCCAGC ACTTTCCCCC TCCTGTATCA GGACCTGTGA ATGTGGCCTT ATTTGGAAAT
63001 AGGGTCTTTG CACTTCATCA GTTAAGATAA GAGTGGGCTC TAACCCAAACA TAAAGGGTGT
63061 CTTTATAAAA AGGAGAAATG TCATACACAG AGACTGACAC CTATAGAGAG AAAATGTGGT
63121 GAGTAGACAC AGGGAGAATC ACCATTCAAG TCAAGCAATG AGTCTGGGGA TACCAGAAGC
63181 TGGGAGAGAA ACCTGGAACA GATTATCCCT CATTGCCTTC AGAAGGAATC AAACCTGATG
63241 ATACTTTGAT TTCAGACTTC CAGCTTCCAG GACTGTGTGA CGATAAATAT CTGTTGTTAA
63301 GCCAACAAAGT TTGAGGTACT TTGTTACTGC AGCCCCAGAA AACTAATACA GTAGGTACTA
63361 TGGACTGAAT TGTGACTCCC CGTCGCAAAA TTCATATGTT GAAACCCTAA CCCCAGTGT
63421 GATGGTACTT GGAGCTGGGG CGTTTGGGAA GTCATTATAT TTAGACAAAC TCATCAGGAT
63481 GTGTCTCTCA TGATGAAATT CATGCCCTTA TTAAAAGAGA CAACAGGCCA GGTGCAGTGG
63541 CTCATGCCTG TAATCCAGC ACTTTGGGAG GCTGAGGTGG ATGGATCACC TGAGGTTGGG
63601 AGTTTGAGAC CAGCCTGGCC AACATGGTAA AACCCCATGT CTAATAAAA TACAAAAATT
63661 GGCCAGGTGT GGTGGTGCAC GCTTGTACTC CCAGCTACTT GGGAGGCTGA GGCAGGAGAA
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63781 TGATAGAGAC TCCATCTCAA AAAAAAAAAA AAAAAAAGAC AATAGAGCCA GGTGCTGCAG
63841 CTGATGCCTG TAATTCCAAC ACTATGAGAG GCTGAAGCAG GAGGCTCGCT TTAGCCAGG
63901 AGTTCAAGAC CAGCTTGGAC AAAATAGTGA GACCCCCAAC TTCTAAAAAT TAAAAAATG
63961 AACTGGGTGT GGTGGTACAC ATCTGAGGCT CCAGCTACTC TGGAGGCTGA GGTGGGAGGA
64021 TTGCTTGAGC CCAGGAGGAG GCTGCAGTGA GCCATTGCTG TCCAGCCTGG GCTACACGAG
64081 AACCTGTCTC GGGAAAAGGA GAAAACAGTG AGACCTCTTT TTCTCTCTC CTTCTCTCCA
64141 CTGCCTAAGC CCTACAAGCA CAAAAAGGAC ACCACATGAG CACATAGTGA GAATGCTGCT
64201 GCCACCAACA AGTCAGGAAG AGAGCGTTCA CTTAGAACT GAATTGGCCA GCACCTGGAT
64261 CTTGGACTTC TGAGCTTCCA GAACTGTGAG AAAGTTATTT TTTTTTTATG GACTAAGTCT
64321 ATAGTATTTT ATTACAGCAG CTCAAGGTAA CTAACATAGT AGAAGGGATG AATTATGGAG
64381 ATCACAAGTC CACGCCTCCA GAAAAAGACT TCCCTAAAAA TTAGTCTGAG CAAAATTCGA
64441 ATGATGAATT ATTTTAAAGA ACTTTTAAAG GATCTGACAA GTTTGCAAGA GCTAGAGAAT
64501 GCTTTACAAC GTGATAATAG AATGCTCTGT GATGACAGAA ATCTTTCCAC ACTGTTCAAA
64561 ACTAGCTACT GGCCACTTGT GACTATTGTG CACTTGAAAT GTGACTGGTG TCTGAGGAGC
64621 AGAATGTTTA ATTTTACTTA ATTTTAATTC ATTACAATAG CTACATGTAG CTAGGGGCTA
64681 CTGGATTGAA CAGCACAGCT CGAGTCTTTT AGAGGGAGAC AGGACTCACC AAGGTGGATG
64741 CTGGTGGCCA AGCAGCAATG GCAGGTAGTA CACACACAAG AGGCAGATGA TACAACACAT

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64801 CCTTCCCAA CCTGGAGATA AGCTCACCCC ACAATCCCGC CGCTGAAATA GAGTTGATGT
64861 TACCAATGTG CATTITTTATG TCCTTTTCCA TACAGAAAGA TCATTCAACA AGTACTATGG
64921 TACTTAAAA ACAACATTCA ATTCATTATT ATGACAAAAT TAAATTAATA GCTCTTCCTT
64981 AAACITTTTAA ATTCAATTTA CAATGCTTAC TATTGGCATT TATTAATCTA CCAATTTTTT
65041 CCCATAGAAC CCATAGAACA AATAATCTAC CAAATTTTTA ACATTCAATT TTGGCAAGGC
65101 TTTTGCAATT TGACGAACTT TAAGAAGAAA ACTTATAAAT TGCAATTTTT AAATCTGACA
65161 TACTGGACTT TTAAAGTATC CAATTGACTA ATGAACAAAA CTGCTCCAAA TTTTCAATT
65221 CTTAAAAATC TTAAGACAAT ACTTAATATG GCAAATCTTA ACTTCTTAAA CTTTGTAAAG
65281 ATGCTAATCA ACTTAGATTG GTATAAAGTT GAGTTAAAA TCACAGGATA CATCATCTCA
65341 GCTATAAGTT TTCATGAGTT GAGTTTTTAC AATCACTTGA AATGCTTAGA ATAGGAAATA
65401 CGTATAAATT ATTTAACATA AAATATTGTT ACAAACCTC TGGAGTGTCA GTTCTCTGG
65461 CCAGACTTTA TGCTGCAGCA CCTTGGCTG AGTTCCTGTC CTGCATCCAG GAAGAATTAG
65521 GTACAGAGGC AAGAGTCAAG AAGATTAGTT TTCCAATAGT TCAGCTCACC TAGTTAACTC
65581 CTGTTCAACA TCTTCAAAGT TATCAGAAAC CTGCAATTGA GGGTTATAAT CCATTCTTGG
65641 CAGAGTTTCA AAACAAGACA ACATTGTCT ATGAATGTTA AAATGTCCTA GGGTAGTCAC
65701 AGTCAAAAAC ACAATTGACA AAGAAATTTA GTCACCTCTG TGATTACAA TAGCCTAACA
65761 CAATAACTCT AATTATAACT GATGACACAA ACTCAGATAT CAGAACTCTA GAAATCCCCT
65821 ATAATTTTGG AACACATATT CACAGTTTTT ACTGAAATAT GACCTGAAGA TCAAATATCA
65881 CCTTATTTCA ACAATCCTAT ATAATAAAC GTGTCAAATG ATCCTGTTTA CCTCTCCTTT
65941 GGATACTCCA GGGGCCCTCT GTAGCATCCA AAAGTTAGGG GTTAGCAAAG ACAATTTTGA
66001 AGCTGTAAG GCTCAAAACA CTTAATGAAC CTCTAGTCAT ATCTGTTCTC TACTCACTAA
66061 ATGCTAGTAG CACCTCTCAG TTGTGGCTAA GCTGGGAGGA TCTCTTGAGC CTAGAAGTTT
66121 GGGGACGCAG TGAGCTATGA TTATGCCACT GCACTCCAGC CTGGGCAACA ATGCAAAATC
66181 CTGTCTCAAA AACAAAAACA AAAACAAAT TGCCATGCT GTGGTTATCT CACAATTAAT
66241 AAAAAGGAAA AAAAAAGTAT GCAGTCTTTG TAGGTCCTTG GGGTTTGTG GAACTCAGAA
66301 AACAATACCC CAAAATAAAG ACCGCAGAAG CCAAAGTTTT TCTCTGATCT TCTCCTGCC
66361 TCCTGTCTCT GAGTCCCAT CTCCCCGAG TCTAGCCATA GAAATGAGAA TTCCTCTTCC
66421 TCAAGTTAGG TCATAGAAAT CAAAACACCT TTTCCCAGA GCCCAGCCAT AAAACCTAAA
66481 AATATTACTC TAACCTTCCC TCTGTTTTTC TGTGTAAAA CTGGCCATA AGAAATTATC
66541 TGAACACCT TATTTGATCA TAGATCACCA GACCGCATT CAGAGAGGAT CCAGAAGGAA
66601 GGAATGCTGC ACAGAGAGGC CAAGAAGAAT CTAGACAGAC AGGCCTTGCT GGGTTTCCCT
66661 ACTCTGTTTA TTAGCAATCC TATTTCTACA CGGCGGCCCA TACTTTGTG AATCTAAAA
66721 ATAAAAATGG ACAATTTCCC CTGTACATGT TAATACACAT TAATAAATTG GATATAAATT
66781 GGATAATTTA TTAATATACA CATTAAATAA TTGGATGCAG CCGGGTGCA TGGCTCACGC
66841 CTGTAATCCC AGCACTTTGG GAGCTGAGGC GGCAGACCA CGAGGTCAAG ACCACCCTAG
66901 CCGAAATGGT GAAACCCCGT CTCTATTAAA AATACAAAAG TTAGCTGGGC GTGGTGGCAC
66961 ATGCCTGTAG TCCAGCTAC TGGGAGGCT GAGGCAGGAG AATTGCTTGA ACTCGGGAGG
67021 CGGAGGTTGC AGTGAGCCGA GATTGCGCCA CTGCACTCCA GCCTGGTGAC AGAGTGAGAC
67081 TCCGTCTAAA AATAATAATA ATAATAATA TAATAATAAT AATAATAATA ATAAATTGGA
67141 TGCATTTTAT CCTATTAATC TTCTCTTGT CGGTGGTTTT CAGCGACTCT TCAGAGGCCA
67201 AAGAGTAAGT TTTCCCTTAG CCCCTACAGG TTCTTATGTT TAATTTGTTA CTCTCATTTA
67261 AGACATAATT AAAGTGGCTT CTCCATGAAG ATTATTTCTG CATCCATTAT TTGGTAAGAT
67321 TGGCCGTTTT CTCCTTTGAT CTCTACTTCA CACTGACCCA CATAAAACAT CACTGCCTGT
67381 TTTTTTGTG TTGTTGTTG GAGACGGAGT CTGCTCTGT TGCCAGGCT GGAGTGCAGT
67441 GGTGTGATCT CCGCTCACTG CAAGCTCCGC CTCCCGGATT CACGCCATT TCCTGCCTCA
67501 GCCTCCTGAG CAGCTGGGAC TACAGGCACC CACCACCAAG CCCGGCTAAT TTTTGTATTT
67561 TTAGTAGATA CGGGGTTTCA CTTGTTAAC CAGGATGGTC TCGATCTCCT GACCTCGTGA
67621 TCGGCCCGCC TCAGCCTCCC AAAGTGCTGG GATTACAGGA GTGAGCCACT GCGCCCGGCC
67681 CCGTTTTTTT TTTTTTGGTT TTTGCATGTC TTCTCCCTTT TACTGTAAAC TATTTCCACT
67741 ACCAGCGTAG TTATCATTTT TACTGCTTAA TAATTGTTTT GGGGAAGTGA ATGCATCAAC
67801 CCACATGAAT TTCTTGCTTA TTGACAATT TATTCTCTT AGGAATAGTA TTAACCTCTA
67861 AGGTCCTGGG AGCCAGTCTC TGTACTTGGC TGCTCCAGG TCCTACTTCA GTTTCCAGC
67921 TTCTCAGTAC TGTCACTGTC AATTGTGGGT AATAATTATT TTTGTCCACC AAAAGACTCT
67981 GTATGTGAAT GAGTTTTGAA ATCTGCTGAG TAATACAGTG TCAACCCAGT TAATGATTTG

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68041 CCGGGCGGCT TGATCAGGGG CTGTCCAACCT ACCGGCATT T GATT TGGAG CGTCATCTAG
68101 TGTCTGAAAG CACAAACAAC ATCCTACATT GTAAATGCCT TTGGCTACAG AGATTGAAAC
68161 CAAAGCAAAC CTATGTTTTG AATTGTTATT CTTCAGCAGT TCTGCTAGCC TTGAAAAATC
68221 TAAAAGTTAA AAAAAAGCTT TATATTTTCA TTTCTGCCTA AACTCTTTAA AATTGCTAGT
68281 TGACAATTAG ATATTTTCAA TTTAATGAAA TTTT TTTTA GTTCACAGAT TAATACACAA
68341 TGGGGGAGGG TTCTTATTCT GTTGGACTTT TACATAACCT CCACCTTAGT GCAGTCTGCT
68401 TTATGGGGTC TTGTTTGAGG TGTGTGTGTG TTTAAGGGAA TGTGGTTTAC AATCAAAATA
68461 TTGGGTTGCT CTTAGGCACA TTGTAAAGTC ACACACCTGT ATTCTTATTG ATACATAATG
68521 ATTAATAACA TTATTATTAC AGCCTGATCA CCATCATTAT TGATATATCT AAATAATGAA
68581 TTTTATAATT TTGCTTCTTG TCAGGCAAGA GCCAATTTC GTGCTACCAT GTTTGTATAG
68641 CAGTATTTAT GTCTGTCATC CTCAGTCATT TTACTTCACT TGTTCCTAGC CAAACGGCCG
68701 AGAAGCGATG GTCATTTTAC TTCAAAAATG AAAAGAATTA ATATTTTAC GTTTCCTTA
68761 AAGACCCTAT GTTTAACCTC CACTCCCGGG TAAAATGGTC TAGTCCCTCC TTTTCATATC
68821 ATCTCTGATA TCTTTGCAC AGCCACTATT ACCTACCGTT TTCTAGATCC CTATTCTTCA
68881 AACACCACCA TGAAGGTAGA GCCTGTCTGA ATTATTTTCT TGTCCCGTGA ACTCAGTACA
68941 TTGTTAGGCT TCTTGAAGAT GTTGATCAGT TGTGTGTGGA GTGAATGAAT CAGCTAGCAT
69001 GATTTTCTA GACCACTGAG ACAAGTGTCT AAGACACTTG TTCTTCCCA TGTCTTGCC
69061 TGCCTGTGCA ATCCATGCAG TCTCATGGCT TCCCAGTGCC TCAGAATTAT CCCCTGTCAA
69121 ACAGGCATTA TAATTTCTGT CCACTGAAAA GGACAAAAAA CTAAGTGTAT AGCTAGAAGT
69181 TAAAAATTAC CGGCCAGGTA CTGTGGCTCA CTCCTGTTAT TCCAACATTT TGGGAGGCTG
69241 AGGCGGGCAG ATCACCTGAG GTCAGGAATT CGATACCAGG CTGGCTAACA TGGCGACCCC
69301 GTCTCTATCA AAAATGTAAA AGTTAGCCGT GTGTGGTGGC TCGCACCTGT GGCCCCAGCT
69361 ACTCAGGAGG CTGAGGCAGG AGGATCGTT GAGCCCTGGA GGTTGAGGCT GCAGAAAAAT
69421 AGGAATATAC TCTCTTCAA GAGTTCGTGG TTTGACTGC CACCTAGCGT ACATCAGAAA
69481 AACCGCATGA CATAGGAAAT GCCTGTGACA GAGGGGTAAG GTGAGAGAGG TTGATGAAGA
69541 ATGTATTGAA GGAGTGAAAA CGCTTCCATC CCTCTACTTA CTAAATATAT TAGTTAAGTA
69601 GTTGGGGCAT ATTTTAATTC ATGCATTTTG TAGATAGAAA AACAAAAGTT TTATTCTGTT
69661 TGATTTAGTT GATACTTTAA TATGTGTGTG TTTAGGATGC ATGATTTATA ATCAGTCTGC
69721 AGCACTTCTT GGAGAAGTCT GAATTCTCAT TCTCCATTTT CTATTGGCA ACGTGAGAAT
69781 GATTACAATG GTGGTTGTCT CATAGAATGC AGGGAGTCAG AATGAAAATA GTCCATATAA
69841 TGCCTGGTGC AGAGGAAGGG TTCAGTTAAC TGTCTGTATT AATATTACTG ATAACAGTCA
69901 TGACAAACAA AAGCTTAACA ACAACACCAC CAACAACAGT TGCAGAATTG AGCCACCAAT
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70021 TTTTGTACT TAAAATATGT CAGAGGTTGT TCTAAGAACT ATTTAAATGT TAACCTCTTA
70081 ATCCTCATAA TGACCCATGA AACAGGTAGG CTTATTATTG TCTCTTTACA TGTGAGAACA
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70201 TTGAATTTGA ACTCAGACAT TCCAGGTTCC AAGACAGTCT AATTATTCTT TTGACTAATA
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70381 ATCCTTTGAT AAGCAAACAT AATAAAAATT TGATATCAAT CAAAACCTTC ATGTAATGTA
70441 AGCAGGTTGA GATGAATTCT ATAGTAAAAA AGTGCAGAGT GCTGGAATAC CATGCTCCTA
70501 ATATATTGGC TAGGCACACC TGCCTGCTAT CAAAGGTATG CACACACCTT GGATACAGAA
70561 AGTTGGGACT GGGTAGTTAT GTGAGTGTCA TCAGAATTCT TTCCCACTTG GGAAAGAATT
70621 GTCCATCATA AGCTTGATG ATGGACAAGG AGTGAGCTCC CAGAACAGTG ATGTGGGGAT
70681 ACATCCTCAC ATCACAGTGA GAATGAGTGT TCTAGACTGT TTACACACCT ACCACTCCTA
70741 AATGCACACA TATAATTGCT TGCACACACA CACATACACA CTCATCTCTT CTCTGGTGGT
70801 CCAGCTCTAT CTCTTATCAT TAGGCTTCTT GGGGCTAGTA CCTAGGGCCT GTATCCTTTC
70861 AGAGGCAGCT AAGGGAAGCA CACATAATTA GAAAGAATGA ACCAGCTTGT TGGATTTGGT
70921 CTCTTCGCAT CCAGCCCTCC AAGTTAAGGA GAGTACCATC TTTCTTAGGG TCACCAAAGG
70981 AAAAAAAGAA AAAAGAAAGA AACAGAAGGA TATCATAACG CAAGGATCTA ATGCAAATAT
71041 GCCTCAAAATG AGAGGCTACT GTGTGCTGAT CCCAATCCCA GGAACGTGAT GCACATTATC
71101 TAATTTAATC CTCACTGTAT TTCTGGGAGT ATTATTCCTA TTTTACAGAG AAGGAACCTG
71161 GCAGGGTAAC CAAGCTCATG AATGGAGAAA CTGGGATTAA ATATAAGCT TCCTTGCTCC
71221 AGAACTGCTG TCTTCTGCT CTTCCACACT ACCAGCTCAG CTGTGCTCTC TACATGCAGG

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71281 CAGTTTTTACA AGTTTCAGAT TAGCCTGGGA CTTCCAGGGT TTTGAATGGG TTAGGGAATG
71341 GGGAACTTTT GGGTTTACTT TCCATTTTTC CTTTCATACAT ATGTAATATA TAACATAAAT
71401 CTATGGTATA TATGATAAAT ATATGGCTAC ATATGAACTA TATAATCACA TATATGCATT
71461 ATAAATAAAT ATTAATTTTA TAATATTTTA AAGGTTATCA AATAAATATT AATATAAATA
71521 ATTAAATAAT TAATACTCAG CTTTGTTC CAAAGTGATA AATGCCTATA TTTAGCAAAA
71581 TATTTTTTGG AGGCCTGATA GTTTTTAGGA GTGTAAAGAA GTCCTGATAT CTAAATGTTT
71641 AAGAACCCTT ATTTTAGGCT GTTGTCTTCT GTCTTATTTT CCCAGCTAGA CTGGTAAATA
71701 CTTGAAGGCA AACGTTTAGC CAGCACATTA ACATTTTATG TTTTATTCTT TTTGTGCTCT
71761 CAGTGGCTGT GTCTTTTCTA TCGATTTCTC ACACTGTATG ATGGTTATAT TTGTCTGTAT
71821 CTGTCCCACC AGGTATAAGT TCTTGAGAGG ACACACTGCT AGGCTGATCT TAGTTTTTAT
71881 TATTTCTCCT GGTGTCCTGT GCTTAACAAG TGCTCATTAA GTGTGTAAA ACACAGCACA
71941 GTAAAAAAT AGACATTAAA AAATAATGTC AACCAATCTA TTGAAATTTG CATTTCCATG
72001 TTTCTTCCAA TATAGTCATT GTGTCAGGTT ATGTACTTAT TCTGATGAAG ACTATTGCCT
72061 AATATACGTT TGCATCTTGT GCTTTATAAC TGCCTTCATA TAGACACAGA TTGAGAAGGT
72121 GTAAAAATGT GCATATCCTC ACAATTGACA AATTCTTATC CTTTGAGGGT AGGTTTGACT
72181 TTCTGAAATG CTTTGACATC ATTTGAAAGA AGCTTGAAGA ATAAGATAGC TGTTAATGAC
72241 CCAGTTTCTT ATGTCACTTA TACAATTATA ATGGCAATTT CAAAATGTTA GGTAAATATA
72301 TTTTGCAATA TATTGTTTCT TTTGTAATAC TCTCTATGTA TTTATTTATA TTTTAAATT
72361 TTATATTTAT GTATTTATTT TTCTGGACAG AGTCTTGCTC TGTTGCCAG GTTAGAGTGA
72421 AGTGTTGTGA TCATAGCTCT CTGCACTTC AAAGTGTG GCAAAAGTGA TCCTCCTGCC
72481 TCAGCCTCAT GAGTAGAGTA GCGGGAACCT CAGGCGCATG CCACTGCACC CAGCTAATCA
72541 CTATTTATTA TGCTCCTACT GTGTGCTTTA GTATATTTTC TGTTGTTTTC TGCAACCCAT
72601 TTTGAGGGCG TGTTAGGGAA TACAGATGCA GTAACCTTGG TCTCAGCCCT TGAGGTGAGG
72661 AAATATTTAG CCTCAGGTTT AATCTAATTG TTGGCCATTT GCCTTCAAAG ATTGAAATAT
72721 GAGCAAAACT GTGGCTCTGG GTTATATGTT AAAAAAAGT TTATGGGGCT GAAGCCAGGC
72781 AACAGACAAG AGCCCTTACA ATCTTATTTA GGCTGAAAAT ATCCTGGAGT CCCTGTATTG
72841 TTGGTCTCAA GCAGATAGCA ACACTAACAC TTACTCTTTG AGGCAGGCAC TGCCAGTGGG
72901 GTGGCTGTTA TTATTAGCTT CATTAAATTG TGAGTCAGGA AAAAACAGCT TTAAATCATT
72961 CAAAGTTCTG GCCTATACAG GATTTAGTAA TATTAGGTTA GCTACATCCA AAAGATGACA
73021 GAACCTTACT CTAAGGCTGG GCTTGGTGGT TCACACCTAT AATCTCAAAA CTTTGGGAGG
73081 CTGAGGCAGG AGGATCACTT GGTGCCAAGA GTTGAGACC AGCCTGAGCA ACATAGTGAG
73141 ACCCTGTCT CTATCAAAAA CAAAGAACTC TAATTGGCAT AGTAGAAGGA AAAAGTGAAA
73201 GAAAAACCAG CTGTCACCTT CATTCCTTAC ACCTGTCTTA ACACTCCTC TCACCTCCT
73261 TTGAATATAT CTTGGCTGTT TGAGTCTCTC TCTAGCCCCA TTACTGCTGT TTGGACTTGA
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73381 TGAAACAAAA CTAGTCAACC TATAATATTT ATGATGTGTG TGTAATAAAA AGAATACACA
73441 ATATATTGCA TTACAATATT TTAAGTGTGT CCTCAATTTG TTTGTGGCTT TCTTGAGGAC
73501 ATCAGTTTGG GGTGGGACGA CCACATCCTT AATCTGAACT TTCCCTTGA GGTCAATCTT
73561 TTTTTTTTGA AATAGAGTCT CGTCTGTCTA CCCAGGCTGG AGTGCACTGG CGCAATCTCA
73621 GCTCACTGCA ACGTCCGCTT CCTGGGTTCA AGTGATTCTC CTGCCTCAGC CTTCACAGTA
73681 GCTGGGATTA CAGATGCACG CCACCATGCC GAGCTAATTT TTGTATTTT AGAAGAGACG
73741 GAATTTTACC ATGTTGGTCA GGCTGGTCTT AAAGTCTCTA CCTCATGATC TGCCACCTC
73801 AGCCTCCTAA AGTGTGGGA TTACAGGCGT GAGCCACCCC GCGCGCCAG AGGTCATTCT
73861 AATAGACTTT TTTTGTGTTG TTGCTCAGAG GCTTGTCAA TCTTATTTCA AAATTTGAGA
73921 AATACAGTTT CCATGGAACA CCAACCAGAT ATCAGGTTGC TATGGAGTTG ATAGTCAAAA
73981 GCTTTGTATC TTCCAGTTTT TCAGAATGGC TTCTAAAGGT TCTGATTCAG AGCTCTTAGG
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74221 TGGTCAGGGA AAGGATGTAT ACTGGAAGAG GAAGGGAAAA TCAGATATAA AGTTGTTTAA
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74341 TTTCCATCTC TATGACAAAA TCTTATTAA TTTATTAAAC TTCTACAAGT GAATGTTTAC
74401 TTTTAGATAG TCTGGACCCA ATAAATGTA AACATTAAGT CAGAGTTACT TTCACGTAGG
74461 ACAGTGTTGT CCAATAAGGT ACCACTAGCT ACACGTGATC ATTGACCATT TGGACTATAG

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74521 CTAGACTGAT TTAATAATGTT CTAAAAGTGT AAAATACACA CCAGGTTCTG AAGATTTATC
74581 ATTTAAAAA GAATGTCAAC TGTCTTTTTT TTTAGCTTAT TTATTATATG TTGAAGTGAT
74641 AATAGTTTAG ATATATTAAG TTAATAAAA TATCTTAAAA TTAATTTTAC TTGTTTCTTT
74701 TCATTCTTTC AATGTGACCA CTAGAAATCT GGAAAGTATT TATGTGATTC ACATTCTATT
74761 TTACTGTCTA GTATTGCCTT ACATCATCAG GTACCCCAT AAGTAGGCTTT TTAGATAATT
74821 CTCTAATATA GCTTGGGAAGG ATATGGAGAA ATATTTTTGC GTTGCTTTTA AGTTTTGCAT
74881 AACTTTTTCA ACACACTTTA TAAAGGATCT AGAAAAGGGT TGGTTACATG TTTCTCTGTC
74941 TTCTGGCCTC CACCATGTTG CCAGGAGGTT GGGGACAAGA TTCTGGGTGG CTGGATGTCC
75001 TAATGGCTTG AGGTCTGGAC TTGAGATTG CATATAAAGA GATGTGATTA GATTGAGTCG
75061 ACTAGAAAAA TCATATTAGA GAACTGAATC ACAGCGATTA AATTACATG TCGATTATA
75121 AACCAGGACA CCAATTTATA GTGAAAAGG GTCCAGTTAC CTGGTAATCA AGACGTTTCA
75181 TAGCTATTTT CATGATGGAT ATACTTAGCT GAGTTTTAAA TGAGAAGGGG GTTCATTGCA
75241 CATAGAATAA GATCTAAGTG AAATGTTTAT TTATTTTTTT TTTTTTTTGA CATGGAGTCT
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75421 GGTTCAAATG ATTCTCCTGC CTCAGTTTCC TGAGTAGCTG GGATTAGAGT TGCCTGCCAC
75481 CACGCCAGGC TAATTTTTGT ATTTTTTTTA GTAGAGATGG GGTTCACCA TGCTGGCCAG
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75601 ATTACAGGCG TGAGCCACCA AGCCTGGCCT AAGTGACATG TTCTTATATT GTTCCTTTCT
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75781 GTGCCACCAC CCCAGCTAA TTTTGTACT TTTAGTAGAG ATGGTGTTC ACCATGTCCG
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76141 ACAAATGTTG GACAAATGTT ATTTAATAAA ACAATGGGGT CACCCTTAGT CTAAAGATG
76201 TTTCACTTTT CATTTGTCAT TGAACCTCTT TTTGTAGGTT CCCTTTTGAC TTTCCACAA
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76321 TGGGGAGTTG TAATATTACC TTTGTCCCTA AATATGAATC TATAATTATA TCAAATATAT
76381 GGGCAGACAA TTTACTTTGC CTTAATCTC AAGAAAAAAA TAGCAATTAC TTGGGGTCGG
76441 AGAGTAAAT AAGAAGTAGT GAACCTTAAA GTAGCAAAC TTAGAACAGA ATAGTTTCAG
76501 AGGGGATGAG AAGAGGTGAT TTTTCAGCTC ATCAACAACA GATCTTATAA TAAATTACAT
76561 GTTCTGGTAC TTTTCTTGTC TTTCTGTGTT AAATTTTGCT ATTTAAAAA ATAAATTTCA
76621 AATACATTGT TCATCTTAAA AGTCAAGAGT GTGTTTTATT AAAGTCAGTT GCTTTATTTG
76681 CAACTCAAAA GATATATTTG AGTTCCCAAC TGGAGATTGT CCTATATGTT AACTTGCCTA
76741 AGGTATGGTT ACTGAAAGTA ACCTACAATT TTCATGGGCT GAAATTCATT TCTATATTGC
76801 AGCGTACAAA AATAAATAAA TAAAAAATGC TTGTTTTCTT TGAAACATA TTATCTCAGT
76861 GCCTCTAACT GCCAAATCTA TTGGCTTTTT TGCAGGCTTA AGGGCTCTCC CTTGTTCCTT
76921 TATGATCTCT ATCTTGAGGG CCAGACCTCC TGCCTTACAC AACTCAGAGG GGGACCTCAG
76981 AGCTCTTTAA AAAGAGCCCA ATTTCTCGCC TGTAGAGAAG TGAAAAGGAT GCCCCACCCC
77041 CATCTATGAA AAGAGGGATT TGATAGTTTC AATGTCTTCA AATCAAAGAT TTAAGTCTGT
77101 AGCCCCCACC CACCCCGGAC CCTAGCAAGG CTCATGAACC CCCTCCCATC CCGCCCTAAT
77161 TGCTTTGGAC TGGCCGTGGA ATCCTTGTC CAGTCCACAG TTCCTGTGCG ACTGCACGAA
77221 GAATTCACAG AGGACCTGTG TTACTTCCCT TGTGAAGAAA CAGAATTATC ATGAAAATTT
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77521 CCTTTCCTGA CCAAACCCAA GTGATTTGGT GCGGGGAATT TTAATATTTT TCCCCTTTTG
77581 TGAGGTGGAA CAAACACAAC TTGGGAGCAG CGCAGCGGCT CAGAGCCTGC CAGCCAGGCG
77641 GGCGACCAGA GCACCAATCA GAGCGCGCCT GCGCTCTATA TATACAGCGG CCCTGCCCAG
77701 ACGCTGCTTC ATCGGCGCTT TGCCACTTGT ACCCGAGTTT TTGATTCTCA ACATGTCCGA

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77761 GACTGCTCCT GCCGCTCCCG CTGCCGCGCC TCCTGCGGAG AAGGCCCTCG TAAAGAAGAA
77821 GGCGGCCAAA AAGGCTGGGG GTACGCCTCG TAAGGCGTCC GGTCCCCCGG TGTCAGAGCT
77881 CATCACCAAG GCTGTGGCCG CCTCTAAAGA GCGTAGCGGA GTTTCTCTGG CTGCTCTGAA
77941 AAAAGCGTTG GCTGCCGCCG GCTATGATGT GGAGAAAAAC AACAGCCGTA TCAAACCTGG
78001 TCTCAAGAGC CTGGTGAGCA AGGCGACTCT GGTGCAAACG AAAGGCACCG GTGCTTCTGG
78061 CTCTTTTAAA CTCAACAAGA AGGCAGCCTC CGGGGAAGCC AAGCCCAAGG TTAAAAAGGC
78121 GGGCGGAACC AAACCTAAGA AGCCAGTTGG GGCAGCCAAG AAGCCCAAGA AGGCGGCTGG
78181 CGGCGCAACT CCGAAGAAGA GCGTAAGAA AACACCGAAG AAAGCGAAGA AGCCGGCCCG
78241 GGCCACTGTA ACCAAGAAAG TGGCTAAGAG CCCAAAGAAG GCCAAGGTTG CGAAGCCCAA
78301 GAAAGCTGCC AAAAGTGCTG CTAAGGCTGT GAAGCCGAAG GCCGCTAAGC CCAAGCTTGT
78361 CAAGCCTAAG AAGGCGGCGC CCAAGAAGAA ATAGGCGAAC GCCTACTTCT AAAACCCAAA
78421 AGGCTCTTTT CAGAGCCACC ACTGATCTCA ATAAAAGAGC TGGATAATTT CTTTACTATC
78481 TGCTTTTCT TGTCTGCCC GTTACTTAA GGTAGTTCGT ATGGGAGTTA CTGAGGTATC
78541 AGAGACGAAT TGGGTGACGG GGTGAGAGAG TGGCCGTGGT GAGGTTACAG CATTTAACC
78601 TTTATTGCGG CTCTAGGTC CCTGACCGGA GGCTTTTCTC GCTGGCGGAT GGTTTTGGGA
78661 TGGCAGTCCC GCCCCAGGCC TGTGAACGGC AGAAAAGACC GCAAAACAAG AGCCAGTTTC
78721 TTAGTCTAAA GGGATGTCCG GATTGGACTA AAAAATTTTC AAAAGTCCCG CCCTGCCTCC
78781 GGGTTGGTCC GTTCTTCTAG TACATGACTT TCATTCTGTA TTTAATTGGA TGGTGAAGA
78841 CGTTGCTTAT TCTGTGTTTT TTGCTTTACT GTGACTTAAA AGTTTGCCT CTTTCTCTTT
78901 TATATTAATG TCTGGGATTT CGGACGCTTT CCATGTTGTT GGTAAGTCAAG TTGATGCTC
78961 CTGGAGGTAG TGGCAACATC CAGCCCTGGG AGGAGAGTGC GTGCAGGTAC CTTTGTCTTA
79021 CATTCCTCTG CTGTTAATTT CTCATTCTCG TGGCAACGAA GGAATGCATT TAAAAACAG
79081 CCACAACAGC GGCAATAGCC CTTCCTCCAC CCAAGGCAAT CGTGGACCTA GGGAGTTTTT
79141 TGTGCCACAT AACATGTAGC CTTCGCTAA ACTGACAGGT TTGAGCGTAT CGATTTTGAG
79201 CGTATCGAAA GCACAACCTT TAGCCAGCCA TTTTGTCTC GCATGACTAC GGTTGCTTAT
79261 CCTGTTTAGA CAGACAGCAA CATTTAAAAA TCGAAGTTCC TTTAAACGTA TTTTGTGTTG
79321 CAGTCCAAAT GTTCTATGC AGAAAACAGT ATTTGTACTA TTAATATGA AGAGTGTATG
79381 GATAAATGGG AGACATTTCT AATAAAGGCC TTCGTTAATG GTTCCCTCTG TTTGACATCC
79441 ATGGTGCTTC TGAATACAGA AAGCCTAGCG TCTTATATTC GCTTCTTTTA AAATCTGGTG
79501 GGCACATTTT GGTGAGACCT AAATTATGGG GACTGGGGCT TCTGGAGATA AGCTGCTCAA
79561 TTATTCTACC ATCTCCACAA TGATTAATAT AGTGAGTTGA TTTGTTAGTG ATAGTGACCA
79621 CGGATTCTAT CCAAGAAAGA GAAAGGGGAG GGAGGCAAGC AGAGAGACAG GAAGACAGAG
79681 GCAGGGAAGA AGGAGAAAAC ATTCTCCCAT GGTTTAAGTA ATTTTGTGTT GTTAATTTTA
79741 CATTACAACA CGGTTTAACA TGGTGAACCC TCTATTTTGG TGTAAAGGTTT AACATATGGA
79801 CATATTTTTC CCAAGACCAT TTATGAACCT TCATTTCTGC TTCCCCCTTC TTCTCCCGT
79861 GCCACCCTCC ACGCTCCTAT CAATTTTGGC TGTTTTGTCA TAGGCTAATA CGCTATAATT
79921 TCATGGACAG TTGGACTGTC TTAGGTTTCT CAGGTTTCTA TTTGTTCTCT TTAGTCTTTC
79981 CCACAATTCT TAAGGTAGAA TTGTATTGTT TTAACATTG TGTGTGTGTC TATCCTCAAT
80041 GCTGAGATGA TTATGTGACA AATGGCAAGT GTTCAACTAA TACCTAAATC TGTAAGTATCT
80101 TATCAAGCCT AATGCTACTT CACAATGCCT ACTCCATTCA CCGCACTTTA TCTCATTACT
80161 GGCATTCTGT CATCTCACAT CATCACAAGT AAAACGGTAA GCTATTTTGA GAGAGATCAC
80221 AGTCATATAA TTATATTTAT ATTTATTTAT TTATTTATGA GACGGAGTTT CCCTCTGTCA
80281 CCCAGGCTGG AGTGCTGTGG CACGTTCTCG GCTCACTGCA ACCTCCGCCT CACGGGTTCA
80341 AGCGATTCTC CTGCCTCCGC CTCCCGAGTA GCTGAGATTA CAGGGGCTCG CCACCATGCC
80401 CGGCTAATTT TTGTATTTT AGTAGAGACG GGGTTTCACT AAGTTGGCCA GGCTGGTCTC
80461 GAACTCCTGA CCTCAGGTTA TCCGCCCACC TCATCCTGCC AAAGTGCTTA GATTACAGGC
80521 GTGAACCACC GTTCACAGAC TCAAATCATT TTTATTACAG TATATTGTTA TAATTGTTGT
80581 TTTATTATCA GTTATTGCTA ATCTCTTACA GTGCCTGATT TATAAATTAA ATTCATCATT
80641 GCCATGTGTA TATAGAAAAA AACAGTGTAT ATACGGTTCA GTACTATCTG TGGTTTCAGG
80701 CATCCACTGG GGGTGACGTT TATTAACAT GCATTTACAT TAGTCTCCCC TTGGGAGAC
80761 TAATTAACCT AGATGTTGTA ACGTGACTTT AATAGCAGAT AGAGCTAATT TTCTCTCATT
80821 ACTCTTCTTT TTCAGAATTT TCCTGGTTAT TCCATTTTTT ATTTTCCAT ATGTATATTA
80881 AGATCTCTTC CACCTCTCC TGTCTCTCCA TCTCAACATC AAACAATTAA AAAAAAAA
80941 AAAGGCTGGG CGCGGTGGCT CACGCCTATA ATCCAGCTC TTTGGGAGGC CTAGCGGGT

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81001	GGATCACGAG	GTCAGGAGTT	CAAGACCAGC	CTCGCCAAGA	TGGTGAAATC	CCGTCTCTAC
81061	TAAAAGTATA	AAAATTAGCC	AACCATGGTG	GCAGGCGCCT	GTAATCCCGG	CTACTCGGGA
81121	GGCTGAGGCA	GAGAATTGCT	TGAACCCGGG	AGGCGGAGGT	TGCAGTGAGG	CGAGACCTTG
81181	CACTCCAGCC	TGGGTGACAC	AGCGAGACTC	CGTCATAAAA	AAAAAAGCCG	GAAGCAGTGG
81241	CTCACGCGTG	TAATTCCAGC	ACTTTGGGAG	GCTGAGTCAG	GCAGATTACC	TGAGGTCAGG
81301	AGTTCAGGAC	CAGCCTGGCC	ATGAAAATAC	AGCCTGGCCA	TGAAAACACA	CAATAAATTA
81361	GCTGGGCGTG	GTGTCACACA	CCTGTAATCC	TAGCTACTCG	GGAGGCTGAG	ACAGGAGAAT
81421	CACTTGAACC	CAGGAGGCAG	AGGTTGCAGT	GAGTTAAGAT	GACGCCACTG	CACTCCATCT
81481	GGGCGACAGA	GCCAGACTCT	CTCTCAAAAA	ACTAAATAAA	TAAAAATAAA	GTTATGGTAC
81541	ATTGAAC TTC	TGTGTTCC TT	TCTCCCTTAG	ATACTTTCAT	GGCTACCCAT	TTAATTGATG
81601	TTCTTATCAT	CTCCAAGAGT	TAGTCAGGAG	AGGAATCAAC	CCAAGCAAAA	ATAGCTGATT
81661	TTCTAATTTT	CCTTCAATGC	CCTTTGGGGT	CTTAATCCAT	TTGATTTATG	TACTTTCAAT
81721	TAATCCTAAC	CTCGAATGTC	TTCTGCAAAC	ATGTTTCCAC	AGATGAAACT	CGTCAAAATGA
81781	AACACATTCC	TTTAATTTAT	AGAGTTAAAA	ATTAGAAAAA	TTTTCAATTC	TATTTGGCCT
81841	TTAGATT CAG	TCTTG CATAT	GTTTTCTCAA	TTTTGTTCAT	GCTCTTTAGT	TTGTTTTTAT
81901	TCCATCACAA	TTGTT CACAT	AGCTTACTGG	CTTAGGTCTA	ATGAACCATT	CATTTGGAAA
81961	TTAAAA TTGG	CCATTTTAAG	ATGAAAAAGA	TTCTTGCCTC	AAATTTTACTT	AGTTTTTGAA
82021	ACTGTCAATG	AGGACACATG	TTTTTCTGTA	CTCTTAGATT	CACTAAGTAG	TGCTTTGCCA
82081	ATTTAACTGA	CAAAGGACAG	ATTAACATGC	GAAAAA AAAA	GCATGCAATT	TTATTAGTAT
82141	ATTACATGCA	CAGAGTTCCC	AAAGAAAAAA	AAATTGAAAC	CTTAAAAACG	CGGTTAGACT
82201	CACAGACTTA	TACACCATT C	CAACAAAGGA	AAGGGAGTTT	GCACTTCATG	GGATGACGAA
82261	TTTGGGAATG	TGACAAGGAA	ATAAATACAT	GGGCAATAAA	AACCATGGAA	GATAAAATGA
82321	AAGATAGAAA	TAATTGTAGT	AAGGTTTTGT	TTTGCAGAGT	CATCTCAGTG	CCAACCTTCC
82381	ATATCTAGTG	ATAAGAATTG	CTCTCTTTTT	CCTGGTATAG	CAGTTGGGGA	CACTTTTACA
82441	AGGGAAATTT	CTGTCACCTT	CACAAAGGGA	AAATTTGGGT	AAGAGAAGAC	AGAGACCTCT
82501	TCCTACACCT	GTTGATTTTC	AAATGCTTCT	AGCTGAAAAT	AACTTTTATG	CCAAAGTAGA
82561	ATAATTTGGG	GGTGACATCC	TGATATTCTT	CAAACTTAT	ATTTAATTTT	ACATTAGTAA
82621	TTATATCATT	TTTGATTTTT	AAATTAGTTT	TATAAAATAA	TTTTGAAAAA	CGGTAATAAT
82681	ATTCAAATAA	TTCCAGAAAC	ACTGCTGATA	AGCCAAAAAC	ATCAATGAAT	ATTGCATAAA
82741	CAACTGATAA	TTCAACCATG	AAAATTTATG	ACATTGTTCT	TGTGTGATAA	AACTATGAGT
82801	AACATAAAAA	CTAGAGGCTA	CTTGTAATGC	ATTATTCCAA	ACTTTCTGTT	TTTTATTTAT
82861	TTATTTATTT	ATTTTGAGAC	ATAGTCTCTC	TCTGTCACCC	AGGTTGGAGT	GCAATGGCGT
82921	GATCTTGGTT	CACTGCAGCC	TCCACTTCCC	CGGTTCAAGC	AATTCTCCTG	CCTCAGCCTC
82981	CTGAGTAACT	GGGATTACAG	GCACCTGACA	CCAAACCCGG	CTAATTTTTT	TGTATTTTTA
83041	GTAGAGACGG	GGTTTCGCCA	TGTTTGCCAG	GCTAGTCTCG	AACTCCTGAC	CTCAGTGATC
83101	CACCTACCTC	GGCCTCCCAA	AGTGTAGGA	TTACAGGCGT	GAGCCACCAT	GCCCGGCGCA
83161	TTATTCCAAA	CTTTCATACA	CAGTGTCTATC	ATGGCTACAA	ATTGAAGTAC	CATATTATAC
83221	ACTCCTAGGC	AAAGCTCTGG	ATATTTTGGC	TATATAAGCC	TGAGGGAAAT	GTAGTAAGGA
83281	CATTGTGGTT	GAAATTCATA	CCAGAGATGA	ACAGGCCCCAG	TGCAAGACAG	AATTACATCA
83341	CTAAAGGATA	TCAGAAGAGA	ATAGGGATTT	AGGGTACAGT	GGCAACAACA	GTTTTGGGAA
83401	CTAGCATTTT	TTGAGCACTT	ATTTACAATA	TGCCAAGCAC	TGTTGCTGAT	TACTCTATAT
83461	TTATTTTCAA	ACACATTCTT	GTCACAGCAC	TTTGAAGTAA	GTGCCATTGT	CATTCCCCT
83521	TCAGGGTGAA	GGACTAAAGC	TTGGTGTCAT	TAAGGATGTA	GCTAGTTAGC	TGTGTGTGTG
83581	TGTGTGTGTG	TGTGTGCATT	TTTTTTTAAA	TTTAAAGTCA	ATAAATTTTT	ATTTGAAGAA
83641	TTTACATCA	AGGTAAACTT	TGTTCTCTTA	AAGAGCTGGA	GTCAAAATGT	ATCTTCAAAA
83701	GATTCATCTT	CAAGTTAGCC	CTTCTTAATA	GAAGTATGTC	TTAATCCACA	GTTGT CAGCC
83761	CACAGTTCTT	TTATTTTGAC	TTTTTTTTTT	TTTTTTTTTT	AGACGGAGTC	TCTCACTGTC
83821	ACCCAGGCTG	CTGGGCAGTG	GCGTGATCTC	GGCTCGCTGC	AACCTCTGCC	TCCCGGGTTC
83881	AAGTGATTCT	CCTGCCTCAG	CCTCCTTAGT	AGCTGGGACC	ACAGGCGCAT	GCCATCGTGC
83941	TCGGCTAATT	TTTGTATTTT	TATTAGAGAC	AGGGTTTCAC	TATGTTGGCC	AGGCTGATCT
84001	CAAACCTCTG	ACCTCATGAT	CCGCCTGCCT	TGGCCTCTCA	AAGTGCTGGG	ATTACAGGTG
84061	TGAGCCACTG	CACCCGGCCT	TATTTTGCCCT	TCTTTAATCT	CCATTTGAAC	ATGGACATAC
84121	TGATGAAAAC	TACAACATTC	TTCAACAAAA	ATCTTTGGGA	TTTAATTTCT	TCAACCACTT
84181	TACTTTGGGG	TCATTTTAAG	ATTAGGTGTA	TCTGCCTGGT	TCTCAATTTG	ACACCCCTTC

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84241 TCTCTAAACA TGAATGAGTT CCAATCATAT TTATTCCTAA GCTATCACAC TCAAATATAC
 84301 TACAGATCTG TGAATATGTC CAAAAGTTAA GGTGAAAAAT TAAATTATTA GGTATTTTCAT
 84361 AGTTTGTGCTA GTTTTGTGATC TGTGAGTGAA TATAACTATC CTCTATGTCC TGGCACTGTT
 84421 CCTCAGAAAC ATAGGGTCCA CATATGTAAT TTTAAATTTT TTAATAGGCA CATTTTAAAA
 84481 AGTGGAAGAA GAAATCTATT TTAATGATTT GAATCCAGTG TAACCAAAAA TTGTTTCAAC
 84541 AAGGTATCTA ATATTAAAT ATTGAGTTTT TACTTTGTTA TTTTACTAGG TCTTTGAAAT
 84601 CTGGTGTGTA TTTTACACTT AAAGCACATC ACAGTTTGGA GTAGCCACAT TTCCAATGCT
 84661 TAATACTCAC ATATGGTTAG TGGCAACTAT CTTGGACAGG ACAGCTTTTA TACTCTGGGA
 84721 AGACACAAGC AAATACTTGC TCTGCACAG AATCCAGATG TTTTCCAAGA AACACATTTT
 84781 TCTGACCTGT TCGTGAAACC CAGGTAGTGT CTCTAATACT TTATATTTTA TTGGTTTGTG
 84841 CTATTGTAAC CACCCAACGG GCTCTCCTTG TCCACTTCCT AGACAGAGCT GATTTATCAA
 84901 GACAGGGGAA TTGCAATAAG GAGCCAGCGC TACAGGAGAC TAGAGTTTGA TTATTACTCA
 84961 AATCAGTCTC CTTGAGAATT TGGGGACCAA AGTTTTTAAG GATAATTGTA TTGTAGGGGA
 85021 CCAGTGAGTC GGGAGTGCTG CTTGGTTGGG TCAGAGATGA AATTATAGGG AGCCTAAGCT
 85081 GTCCTCTTGT GCTAAATCAG TTCCTGGGAG TGGTGGGGTG GGGGACTCAA GACCAGATAA
 85141 TCCAGTTTAT CTATATGGGT GGTGCCAGCT AATCCATTGT GTTCAGGGTC TGCAAAATAG
 85201 CTCAAGCATT GATCTTAGGT TTTAAATAG TGATTTTATC CCCAGGAGCA ATTTGAGGTT
 85261 TAGAATCTTG TAGCTTCCAG CTGCATGACT CCTAAACCAT AATTTATAAT CTTGTGGCTA
 85321 ATTTGTAGT CCTGCAAAAG CAGTCTGGTC CCCAGGCAGG AAAGGGGTTT GTTTCTGAAA
 85381 GGGCTGTTAT TGTTTTTGT TAAAAGCAA AGTATAAACT AAGCTCCTCC CAAAGTTAGT
 85441 TAATCCCAA CTCAGGAATG AAAAGGACAG CTTGGAGGTT AGACGTTAGA TGGAGTCGGT
 85501 TAGGTAAGAT CTCTTTCAC GTAAATATTT TCTCAGTTAT GATTTTTGCA AAGGCAGTTT
 85561 CACTGTCCAC TTCACCTCAC ATCAGCCTC TGACTAGAGG ATTCCAACAA TACTTAGGCC
 85621 AGGACACCAC CATGTCTCCT TATCCACCT GAGGGATTCC AATTTCTGAA ACAAGGAAA
 85681 CTATATATGA TAGTATGAAA CTATATATGA GAAGGAAAT ATATATGATA ATCAATTTTA
 85741 GGGTTATCTT ATTGATTAGA AGATAATTA GTGTGACACT GCCTGGCAAT GATATCTGCT
 85801 GGTAGTAAGA ATTTGGCGAA TTTAGTGAAA TTCCTGAGGC TGAACCTCA CTTCTGTAAA
 85861 ATGGAGACAG TGAGATAATT TGCCTTACAA TGCTGAAGTA AGAATTTTAC ACAATAATTC
 85921 AGACCAACCA CTTTATGTGG TACTTGGCCC GTGGAAGACT ATCAATGACA GTTAGTTTAT
 85981 AGTTTATACT ATTAATGAAT CCTTTGTTTC ATTGTTATTT CTTTCTACAC GTTGGCCTCT
 86041 CTAAAGAAG GTAATATTCA ATACAAATA AGTTAAAACA GCTTGCAGAG TTGTCCCAGG
 86101 GAACCTACTT AACCAGTGA GTGTTCAAAT TGCTTAAGGT TGACTTTATA TTCTCCTGAC
 86161 TAACCTTTCT CTTTCTGGTA TTTCTCTGA GAACAGCACC ACCATCCAAA GCATCATGCA
 86221 AACAGTGGTC ATCCCAGACC AGTAATCTC AACTCACAGG GTGCTCCTGC AGAGATGTAT
 86281 TTGAATAGAG TGGTAGGATG CTGAAGAAG CCACGTAAAA TTTGGCCAGT GATCTGGGGC
 86341 AGATTTATCC TGAAGCTAAT GAAACACAAG TGTAAAGGCC TGTACTTCCA AGCTGCAGAG
 86401 AGGGGCCCTA CAAATGTGTT AGTTTGTCTC TCTCTCTCTC TCTGATTTTA AAATTTGACG
 86461 TATTAAGGTA CTTTAATCAC GGATGGTTCA GGCTGCTATT TTCACTCAAT CCTCCTTTT
 86521 ATTAATATCA CCATTGTCTG ATTATGTTAG AATCCTGATG AAAATATTTG GAATTTGAGT
 86581 AAGAGAAAGT TTAGTTGAAG ATGTATCTAG TATGGGGATA ATAAGTTACG TGATTTGCAT
 86641 ATGTATCAT GTGTACTTCA TTCGTTGCCA GCCAATCTGA CGTAAGAATG GCTTCAAGGA
 86701 GGCCGGGCGC GGTGGCTCAC GCCTGTAATC CTAGCACTTT GGGAGGCCGA GACGGGCGGA
 86761 TCACGAGGTC AGGAGATCGA GACCATCTTG GCTAACACGG TGAACCCCG TTTCTACTAA
 86821 AAATACAAA AATTAGCCGG GCGTGTGGC GGGCGCCTGT AGTCCAGCT ACTTGGGAGG
 86881 CTGAGGCAGG AGAATGGCAT GAACCTGGGA GGCGGAGCTT GCAGTGAGCC GAGATCGCGC
 86941 CACTGCACTC CAACCTGGGA GACACAGCGA GACTCCGTCT CAAAAAAGAA AAAAAAGAA
 87001 TGGCTTCAAG GAATGTTCTT ACTGCTCACT GGAATAACTC ACCTAAATTC CTGGCAAGAT
 87061 GCAGGTCTAG ATAAATGTT ATGACATCTA AGTATTCAA ACACATTCCC AGCACTGAGA
 87121 GTGAGTGTCT AGTGGAGAGT AGAAACGTAT AGAGCCAGAA GCTAGTCTGG AAAGAATTCT
 87181 TACAAAGTTT ACAACTTACA TGTGAAAGGA GCTTAACAGA GGATTTTCCA AATTTGAAAA
 87241 CAATCCTAAA AACTTACTTG ACATTACCAA TAATGTGTTT TGAACTGAA ATACTTCTAA
 87301 GTTATGAAGA AACATATTA TCATCAGCCA CCCTGGAGGA AAGATTGAAT TCTATTTCCA
 87361 TTACCTATAG ACAACATTAC AAAATAATTT CGATCTGAAG ATGGAATCAG AGTATTCACT
 87421 CAAAACCTACA GGAAATATA CTTGGTAGTG TCATATTCAG AAGTTAATAA AATATGCTAT

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87481 TTTCTGAATT TTGTGATGGC TGTGTGTTTTG TCAGCTTTTA TAAAATTGGA ATTTGATTTT
 87541 ATTTTCCCAT TATAAATTTA TATTTACAGT CTGCAGTACT TTTGCATTTT TAATTTTACA
 87601 TTATAGCTTT TAATAGTTAA CAAGTTGTAA AAGGTTTGAT CCCCAGAAAA CCTTGATCTA
 87661 CCCCCTCAGT TAAGTATACT AATATATTTA GAAAATGGAT GAAATCAGCA TTTGAATATT
 87721 TTTAAATATT TATTTAAAGA GGACATGGGT AAAAGAGCTT TGCAGTTGCC ACCCTTCATT
 87781 CTCAAATTC CTGGATAAGG ATGACCGCAT AATCTTTGGA TGGTCATACG CAAGTCTTGT
 87841 GTATTTGTTA CATAAATCTA TTAGTGGAC TTTTGGCAGT GTGTACTGAG GCCAGTTTCT
 87901 TCCACCTGAG CTCTGACTCC ACCTCCAGCA GCCCAAAACC AATACTGAAT TTTGGGGTCA
 87961 GCTATTGTTT TTGTGGACTT AGGTAACACT ACACACATTG TCTTTATGAT AGCTTTAATA
 88021 ATACTGCCAT CAGAACTAAA ATTGTCACGT GGATTAAAAG GAGTGACGGT GGTGTCCCCA
 88081 GGAGCCTTTC AATATGTAAG TATTTACACA TATACATGCT AAAAAGACCC CTAGGAATTT
 88141 TTTTAACAAG GGCAAAACAG TAACTCAGCT TGTTTTCTCG CAGTAAAACC GGTGAAAAG
 88201 GCCTGATAGA CTTGTCTGCA GTTACAAAAC TTGTGTGTAG TTATCACCTT TATATCTCCT
 88261 GGAAACTAAC ATAGACAACC GAATGGGTTA CAACTGTTTT TAAGTGAAT TGTGAGTGGC
 88321 TCTGAAAAGA GCCTTTTCAA TGAGGAAGAA ACGGGCAGAC TTATGCCCTT TCCCCACGGA
 88381 TGCGACGTGC CAGCTGGATA TCTTTGGGCA TGATGGTGAC GCGTTTAGCG TGAATAGCGC
 88441 ACAGATTGGT GTCTTCGAAG AGTCCCACCA GGTAGGCCTC GCAAGCCTCC TGCAGCGCCA
 88501 TCACCGCAGA GCTCTGGAAA CGCAGGTCGG TTTTGAAGTC CTGGGCGATT TCTCGACCA
 88561 GCGCTGGAA CCGCAGCTTC CGGATCAGCA GCTCGGTGGA CTTCTGGTAG CGACGGATTT
 88621 CGCGCAAGGC CACGGTGCCC GGGCGGTAGC GATGAGGTTT CTTACGCCA CCGGTGGCCG
 88681 GAGCGCTCTT ACGGGCTGCT TTAGTAGCAA GCTGCTTGCG CGGAGCTTTG CCGCCGGTAG
 88741 ACTTGCGAGC TGTTTGCTTC GTACGAGCCA TTTGCAATGA GAGCACACAC AAAAGTGTAG
 88801 TGAACGAGA GCAAGTGGCC TTTAAATATA GTGAGAAACA TTCTGATTGG TCCTGTAATA
 88861 TTTCAAAGT CCCGCGCGAT AAAATCATTG GCTGAAGAGT GACCAGACTG ATTGGTTTCT
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 88981 TATCTGCAGC GACAAATTGT CTAATAATCT AGTTTATCCA GTCCCAAAGA ACAGAGTGTA
 89041 TAACAAGGTA TCTAAGGATT TTTAAATGT AAATTCCGAT TCAGTAAGTT TGAGTGGGAC
 89101 TTGAAATTCT GCATTCCTGA CAGTCTCGCA AGTTATCAAT GCTGGTGAAC ACTCACTAAA
 89161 CCACCGAGAA CGTTCAGACT CATGTCGGGA AATAACGCTT ATATTAGAG AATGAGATTC
 89221 CATGCTATTT TGTTACTGGC GAACAGCAAG TTTCTTGCC CTTTGTTTTC TAAGTCCAAG
 89281 TCACATTCCC ACCCTGCCTG TTCTCAAAAT GTCTTATTTT GGTTGGCCTT AAGTTTCACT
 89341 TTGTATACTC TAAAATGTAC TTTCTAAAGG AAGGTGTTAT TTTCTCGAAA CTTAACTTT
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 89521 CCCCCTCTCG CATAAAAATA CAAAAACTAG CTGGGCGCGG TAGCAGACGC TGTAATATCC
 89581 AAGTACACAG GAGGCTGTGG CATGAGAACC GCGTGAAGCG GCGGGGTGGA GGTTCAGTA
 89641 AGCGGATATC GCGCCGCTGC ACTCCAGCCT GGGTGACAGA GCTAGACTGT CTCAAAACAA
 89701 ACCAATCCAA ACGAAAAGCA AAAAATACCC TAACAGAAGC AAGTTATCAT CTTTCTTGT
 89761 GTAACATATG ACGGCTCTGA AAAATGCCGT TTCAAGTGTA AGCTACGTTT TCTGATTTGA
 89821 GTGTTTACTT GACCTTGGCC TTATCGTGGC TCTGTTATTT TGGCAACAGG ACGGCCTGAA
 89881 TATTGGACAG GACGCCTCCC TGAGCAATAG TGACGTTGCC CAGCTGCTTG TTGACCTCCT
 89941 CGTCGTTTCG GATGGCCAGC TGCAGGTGGC GGGGGATGAT GCTGCGGGTC TTGTCACGTA
 90001 TGGCGCTGCC CACCAGTTCT AAGATCTCGG CGGCCAGGTA CTGTAAGTAC ACTGGCGCAC
 90061 CGGCTCCGAC CGGCTCAAAA TAATTGCCCT TTCGAAAAAG ATGACGGACT CTGCCCTATT
 90121 GGGAACTGCA AGCCCGGTAG CGACGAACAA GTTTTGTCTT TAGCTCCATT TTCCACGTCC
 90181 GCAAAATAGCG ACCTATGAAA GCAGCGGAAA ACTGTGAAAG ACAAGCAAGC TGGAAATGGCG
 90241 CCTGAACAAA TCCTTTTATA CAACTGCAA GGCTGCAATA GGAAGCTATC CTATTGGTCA
 90301 ATTATGTTTG GTGCTTTATC CAATAGAAAA AGATAACATA AATTCCATAT TTGCATAAAC
 90361 CCCACCCCTC AGTGAAACCG TGTTTCTTTT GTCCAATCAG AAGTGAGGAA TCTTAAACCG
 90421 TCAATTTGAAT CTCAGGACTA TAAATACATG GGCTCTGAAC TGTTCTCTGT ACTACTCTGT
 90481 AGTGGAGAGT GTTAGTAGCT TTTCTATTCT GTTTAGGAAT AGCAATGCCT GAACCCCTCTA
 90541 AGTCTGCTCC AGCCCCATAA AAGGGTTCTA AGAAGGCTAT CACTAAGGCG CAGAAGAAGG
 90601 ATGGTAAGAA GCGTAAGCGC AGCCGCAAGG AGAGCTATTG TATCTATGTG TACAAGGTTT
 90661 TGAAGCAGGT CCACCCCGAC ACCGGCATCT CATCCAAGGC CATGGGGATC ATGAATTCCT

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90721	TCGTCAACGA	CATCTTCGAG	CGCATCGCGG	GCGAGGCTTC	TCGCCTGGCT	CACTACAATA
90781	AGCGCTCGAC	CATCACCTCC	AGGGAGATTG	AGACGGCTGT	GCGCCTGCTG	CTGCCTGGGG
90841	AGCTGGCTAA	GCAATGCTGT	TCCGAGGGCA	CTAAGGCAGT	TACCAAGTAC	ACTAGCTCTA
90901	AATAAGTGCT	TATGTAAGCA	CTTCCAAACC	CAAAGGCTCT	TTTCAGAGCC	ACCTACTTTG
90961	TCACAAGGAG	AGCTATAACC	ACAATTTCTT	AAGGTGGTGC	TGCTGCTATT	CTGTTTCAGT
91021	TCTAGAGGAT	CAACTGGAAT	GTTAGCGAAG	ACAAGTTTAA	GAGCCAAGGT	TAAGTTGGAC
91081	GGGGCCGTGC	GCGGTGCCTC	TTGCCTTTAA	TCCCGGCAAT	TTGGGAGGCC	GAGGCGGGCG
91141	GATCACTTGA	GGTCGGGAGT	TCGAGACTAG	CCCGGCCAAC	ATGGCGAAAG	CCCGTCTCTA
91201	CTAAAATACA	AATGATAGAC	GGTCGTGATG	GCGCTCTTTC	TCATCTGTCT	TAGCAAACCT
91261	CTTGTTTCCC	CCTGGGTAAG	CCTTCGGGTA	CTATGTATAA	TTCTTTTGAT	AAGGTCACTA
91321	CTCCCTCCCT	GGTCTAGTAC	AGGAACTTTC	CCTTTCTGGA	TAATGAAGCA	GGTAATGGAA
91381	TTCAGGGTAT	AGTGTTCCTG	TGGGGGTCAT	TAGCCGTTAA	CTTCTTGTA	GATGCGGGGG
91441	AGGGGAGCAG	AAAAGTCTAA	GCGACAAAAG	GGCATGTAGG	GATATTTGCT	CCTGCAGCTT
91501	GCCTATGCTG	TAAATTCTTA	CTTCAAGTAT	TGAGGAAACA	ATAAGCGAAG	TCTGATTTCC
91561	CGGGCGCCTT	TATACGGAAT	ATTTCCCGCT	CCACAAAATG	AAATCGCAGT	AGTTTTGAGT
91621	TATAATTGTT	TATCAATGAC	AACAGCTATG	TAGTTTACAT	ATTTTCATGCA	TCCAGAAAT
91681	CCAGATTCCC	ATTTCCCTAAG	CCACTTAACG	TTCTGATTTC	CAGCTCTGCG	AGATACAAAA
91741	GGGTTTGGAT	TTTGTGCCCT	TCCCCATCTG	GCGCCACTGC	AAAGCTTACT	AGGAGGGCCC
91801	CACTTGGAGA	GGGAAATCTT	TTTCGAGAAG	TCCAGGACGC	CAAAAACAAT	ATAGCTAAAA
91861	AAAAAAAAAA	AAAAAAGGCA	GGAAGAGCAC	TAGTTGAGGA	GGAGGACTCA	ATGGGCGCAAT
91921	TCTGGGGCTG	GGGCTGGGGG	AAGAAATGCA	AGAAGAAAAG	ACACTTGTTG	ACTGCACAGT
91981	AAGCAGGAGG	GGGTGGGGGA	ATCGGAGGGG	AGTATTTTCA	GCGAATTTAT	GGGCATTATA
92041	TGTAGGTGAC	ATACAGCAGT	GTCTTTGGAT	GAAGAAATAA	AGTTTCTCAA	ACAGTTCTTG
92101	TTTTTGTTTT	GAGAAAGGGC	CTTTCTCTGT	CGGCCAGGCG	CCATCATAGC	TCAGTGAAC
92161	CTCGACTTCC	CCAGCTCAAG	CGATCCTCTT	ACTTCAGCCC	CTTGAGTGGC	TGGGACTAGA
92221	GAAATGCACC	ACCATACCCA	GTTAATTTTT	TAATTTTTTG	TGGAGGCAAA	GGGTCTTACT
92281	TTGTTGCCCA	GGCTGGTCAA	GCGAACTCCT	GGGCTCAAAT	GATCCTCCCG	CCTTGGCCTC
92341	CCAAAGTCCT	GGGATTATAG	GAATGAGTCA	CCGCGCCCGG	CCCAGATTTA	ATTTTTAAGA
92401	ATCTTTTAAA	AGAGGTTCTG	GGCCGGGTGT	GGTGCAGCTC	ACGCCTGTAA	TACCAGCATT
92461	TTGGGAGGCC	AAGGTGGGAG	GATCACTTGA	GCCCAGGAGC	TCAAGACCAG	TCTGGGCAAC
92521	TTAGTGAGAC	CTTTTGTCTC	CACCAAAAAT	TTAAAAAATT	AACCAGGCCT	GGTGGCACAT
92581	TTCTGTAGTC	CCAAGTACTG	GGGAGGCTGA	AGTGGGAGGA	TCATTTGAGC	CTGGAAGGTG
92641	GAGGTTCGAG	TAAGCTGTGA	CGGCACAAC	GCACTCCAGT	CTGGGTGAGG	ACAGACCCTG
92701	TCTCAAAAAT	AAAAAATAAA	AAAAATCTG	GATGCCACAC	AAAATGTCAG	TGAACAACAT
92761	TAAGTGAAGC	ACTTCCCATC	CTAGTACTGT	ATATGCAAA	TGCCGTTGTG	AAAGTGACGC
92821	TTGGCTTAAA	AATCTACATT	CTTTTTTTAA	TTATAAAACT	ACCACATCCC	CCAAAAACAT
92881	TACTAAGGAA	TTGAGGCTGC	AGTTTAAGAA	GCTGATATTT	AGGATCTATC	TCCGGAGAAG
92941	TGAGACCTGG	TAATATAAGC	ATTTTCAAAA	TGAACCTTTG	GGCCAGGTGA	GGTGTGTCAT
93001	GCCTGTAATC	CCAGCACTTT	GGGAGACCTA	GTCAGGCAGA	TCACTTGAGC	TCACAATTCC
93061	AGACCAGCCT	GAGCAACATG	GCGAAATCCA	GTCTCTACAA	AAAATTAGCA	GGGCGTGGTG
93121	GCATATGCCT	ATAGTTCCAG	CTACTATAGA	GGCTGAGGTG	GGAGGATTAC	TTGAGCCCGG
93181	GAGGCAGAGG	TTGCAGCAAG	CCAAGATCGC	GCCGCCACAG	CCTGAGCGAC	AGAATGAGAT
93241	ATGCACCCAC	GCCCTAAAAA	AAAGCATGAC	TCATTAAAAA	AAAAAAATTT	AGCCGGTCCG
93301	GGTGGCTCAC	GCCTGTAATC	CCAGCACTTT	GGGAGGCCGA	GGCGGGCGGA	TCACGAGGTC
93361	AGGAGATGGA	GACCATCCTG	CTTAACACGA	TGAAACCCCG	TCTCTACTAA	AAATACAAAA
93421	TAATTAGCTG	GGCGTGATGG	TGGGCGCCTG	TAGTCCCAGC	TACTCGGGAG	GCTGAGGCAG
93481	GAGAATGGCG	TGAACGCGGG	AGGCGGAGCT	TGCAGTGAGC	CGAGATCGCG	CCACGGCACT
93541	CCAGCCTGGG	TGACAGAGCG	AGACTCCGTC	TCAAAAAAAA	AAAAAATAAA	AAAATTAAAA
93601	AAATATGAAG	TTTTGAAGCA	GAAATTATTT	TGTCGTATGT	TCTTTTCAAA	ATTTTTTGCC
93661	TGCCGTGCCT	CTTCCTTTGT	TACAGAACTC	CAACACTTAC	CCAAAGGTAG	CTGTTGGGTC
93721	AGGGTTTCTG	TACTATAGTC	CCTTCTGTGG	TGGCCAGAAA	TATGTTACAG	GAAAGAGGTC
93781	CCCATCCAGA	CCCCAAGAGA	GGGTTCTTGG	ATCCCGCGCA	AGAAAGAGTT	CAGGGTGAGT
93841	CCGCAGTGCA	AAGTAAATGC	AAGTTTACTA	AGAAAGTAAA	GTGGTGAAAC	GACAACTACT
93901	CCATAGACAG	AGCAGGACAT	TCCCGAAAGT	AAGAGGAGGA	AGGCATCCAC	CCTAGGTACA

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93961  ATACTTGTAT ATATGGGGAG ATGTGCTCTG CTACAAGTTT GTGATAAAGG ATTAATTTTC
94021  TTAGTTACTA TATTTTGTAA GAATCAACAT TATTATCTTT AAACAAAATT AAGAATGCCT
94081  TTGTTCTCCA GATATAGGGA TATCTGGACA CTCCTAAGTC TGAGTCTGTT TAGTAAACAT
94141  TATTTATTTG TTCCCTTAAC CGTAAACATC TAGAAGCTAG GAATGACTGA CTTTCTGGGA
94201  ATGCAGCCCA GAAAGTCTCA GCCTCATTTT CCTAGCCCTC ACTCAAAATG GAGTTACTCT
94261  GGTTCAAGTA ACTCTGACAC TTTTCTTCTC TTTTCTTCTT CTTTCTTCTT TCCTTTATTT
94321  TTTATTTTTT ATTTTGTAAA TAAGAAATCA AGAATACTTG ATGTTTCATC TAAAACAATA
94381  CCCATAATTG ATAAGCCAAA AAAAAACCT AGGTCTTCTA ACTCAAACT AGGATGTTTT
94441  GCTGTCTCTG CTGATACTCG GCTGATCGTT AATAGGTAAT TAACAAACAA GCCTTGCTAT
94501  GTCCCCCTCA GTTTATTACC ATTAGATCAT ATGCCTACTG TCAATCATAT TAATCCACAA
94561  CTATGCATTT CACAAAACCT GCCATAAAAA TTCACAGGTT TCCCGCTTCC CTCGAGTTTT
94621  CATTTCCGAA GGGTCCCATG TAATATAAAA CTTATATTAA ATACATTTGT ATGCTTTTCT
94681  CTTGCTAATC TTTTCTTTTG TTTTCTGAGA CTGAGCCTTG CTCTGTCACC CAGGCTGGAG
94741  TGCAATGGCG CGATCTCGGC TCACCTGCAAC CTCGCTTCC CAGGTTCAAG CGATTCTACT
94801  GCCTCGCCCT CCCGAGTAGC TGGGACCACA GATACGTGCC ACCATGCCCC GCTAATTTTT
94861  GTATTTTTAG TAGAGACAGG GTTTCACCGT GTTGGCCAGG ATGTTCTCAA TCTCCTTACC
94921  TCGTGATCCG CCCGCCTCGT CCGCCAAAG TGCTCGGATT ACAGACGTGA GCCACTGCAC
94981  CCGACCAATC TGTCTTTTTG TAGAGGGGCC TCAAGCATGA ACTTACTGAT GGGTGAGAAA
95041  AACAGAATTT TCTTTCCCC TACAATATAA ACATTAATTG TAATGTTATC ATTCAGGACA
95101  TTTTGGTGAC CAATCTTACA GAAATTTTAT CTTGTGCAAG TCTATGCAAA CCAATATGTA
95161  AATCTTCTAT AAGTGAGATT GTATTTCACT TTTCTAGTAT CCTTTTAAAT TAATAAAGA
95221  GATTCTAATG ATTATTTTCA TTACTGCATT TCATTGTAGG GAAGTAGATA ATTGCCCTTT
95281  ATTCATGAC CTTGCTTTT TAAAAATTTA AACCATGTTA CCAATGAAAAT GCTTTTCACT
95341  ATTTCTCTAC ACACAAGATT GCTGTAAGGG CAAAAATAGA GATAGGAATC ATGCATCCAT
95401  TGATATACAT ATTTTGATTT TTAATACATG TTACCAAGTT GCCTCCTGAA GGTCTGTTTA
95461  CACTCTCACC AACAGGGTGT TTTTCTCTGA CTTCCACAAA TGCTCTTGAA CAGTGGGTGT
95521  GTTAGTCTGT TCAAATTGCC GACATGAACA ATTAAATCTC ATTGTTGTTT TTATTTTAA
95581  GACAATTATT GTTTGAGACT GCACATTTTG ATAATAACAT TTCTTCTATT ATGGTTTGAT
95641  TACTCATGAT TCTTGCCCAT TTTCTTTTGG GATGTTGCCT TATGTACATT ATTTTAAATA
95701  GATAGCTCCA TGTATTAAAA GATTATTAAG TTTGAGGGCT TATGATATGT CAGTTACATT
95761  TCTAAGATTT TTTTCTTTT TTTTCTGAGA CGGAGTTTCA CACTTGTTGC CCAGGCTGGA
95821  TGCAATGGT GCGATCTCGG CTCACCGCAA CCTCCGCTC CAGGGTTCAA GCAATCTTCC
95881  TGCTCAGCC TCCCCAGTAA TTGGGACTAC TGGCAAGCGC CACCACGCCT GGCTAATTTT
95941  GTATTTTTAT TAGAGATGAG GTTCTCCAT GTTGGTCAGA CTGGTCTCGA ACTGCCGACC
96001  TTGGCTTAAA AATCTACATT CTTTTTTTAA TTATAAACT ACCACATCCC CCAAAAACAT
96061  TACTAAGGAA TTGAGGCTGC AGTTTAAAGAA GCTGATATTT AGGATCTATC TCCGGAGAAG
96121  TGAGACCTGG TAATATAAGC ATTTTCAAAA TGAACTTTGG GGCCAGGTGA GGTGTGTCAT
96181  GCCTGTAATC CCAGCACTTT GGGAGACCTA GTCAGGCAGA TCACTTGAGC TCACAATTCCG
96241  AGACCAGCCT GAGCAACATG GCGAAATCCA GTCTCTACAA AAAATTAGCA GGGCGTGGTG
96301  GCATATGCCT ATAGTTCCAG TCACTATAGA GGCTGAGGTG GGAGGATTAC TTGAGCCCGG
96361  GAGGCAGAGG TTGCAGCAAG CCAAGATCGC GCCGCCACAG CCTGAGCGAC AGAATGAGAT
96421  ATGCACCCAC GCCCTAAAAA AAAGCATGAC TCATTAAAAA AAAAAAATTT AGCCGGTCCG
96481  GGTGGCTCAC GCCTGTAATC CCAGCACTTT GGGAGGCCGA GGCGGGCGGA TCACGAGGTC
96541  AGGAGATGGA GACCATCCTG CTTAACACGA TGAACCCCG TCTCTACTAA AAATACAAAA
96601  TAATTAGCTG GGCGTGATGG TGGCGCCTG TAGTCCCAGC TACTCGGGAG GCTGAGGCAG
96661  GAGAATGGCG TGAACGCGGG AGGCGGAGCT TGCACTGAGC CGAGATCGCG CCACGGCACT
96721  CCAGCCTGGG TGACAGAGCG AGACTCCGTC TCAAAAAAAA AAAAAAATAA AAAATTAAAA
96781  AAATATGAAG TTTTGAAGCA GAAATTATTT TGTCGTATGT TCTTTCATAA ATTTTGTGCC
96841  TGCTGCTCTT CTTCTTTTGT TACAGAATC CAACACTTAC CCAAGGTAG CTGTTGGGTC
96901  AGGGTTTCTG TACTATAGTC CCTTCTGTGG TGGCCAGAAA TATGTTACAG GAAAGAGGTC
96961  CCCATCCAGA CCCCAAGAGA GGGTCTTGG ATCCCGCGCA AGAAAGAGTT CAGGGTGAGT
97021  CCGCAGTGCA AAGTAAATGC AAGTTTACTA AGAAAGTAAA GTGGTGAAAC GACAACACT
97081  CCATAGACAG AGCAGGACAT TCCGAAAGT AAGAGGAGGA AGGCATCCAC CCTAGGTACA
97141  ATACTTGTAT ATATGGGGAG ATGTGCTCTG CTACAAGTTT GTGATAAAGG ATTAATTTTC

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97201	TTAGTTACTA	TATTTTGCAA	GAATCAACAT	TATTATCTTT	AAACAAAATT	AAGAATGCCT
97261	TTGTTCTCCA	GATATAGGGA	TATCTGGACA	CTCCTAAGTC	TGAGTCTGTT	TAGTAAACAT
97321	TATTTATTTG	TTCCCTTAAC	CGTAAACATC	TAGAAGCTAG	GAATGACTGA	CTTTCTGGGA
97381	ATGCAGCCCA	GAAAGTCTCA	GCCTCATTTT	CCTAGCCCTC	ACTCAAAATG	GAGTTACTCT
97441	GGTTCAAGTA	ACTCTGACAC	TTTTCTTCTC	TTTTTTTCTT	CTTTTTTCCT	TCCTTTATTT
97501	TTTATTTTTT	ATTTTTGAAA	TAAGAAATCA	AGAATACTTG	ATGTTTCATC	TAAAACAATA
97561	CCCATAATTG	ATAAGCCAAA	ACAAAACCT	AGGTCTTCTA	ACTCAAAACT	AGGATGTTTT
97621	GCTGTCTCTG	CTGATACTCG	GCTGATCGTT	AATAGGTAAT	TAACAAACAA	GCCTTGCTAT
97681	GTCCCCCTCA	GTTTATTACC	ATTAGATCAT	ATGCCTACTG	TCAATCATAT	TAATCCACAA
97741	CTATGCATTT	CACAAAACCT	GCCATAAAAA	TTACAGGTT	TCCCGCTTCC	CTCGAGTTTT
97801	CATTTCCGAA	GGGTCCCATG	TAATATAAAA	CTTATATTAA	ATACATTTGT	ATGCTTTTCT
97861	CTTGCTAATC	TTTTTTTTTG	TTTTTTGAGA	CTGAGCCTTG	CTCTGTCACC	CAGGCTGGAG
97921	TGCAATGGCG	CGATCTCGGC	TCACTGCAAC	CTCCGCTTCC	CAGGTTCAAG	CGATTCTACT
97981	GCCTCGCCCT	CCCGAGTAGC	TGGGACCACA	GATACGTGCC	ACCATGCCCC	GCTAATTTTT
98041	GTATTTTTAG	TAGAGACAGG	GTTTCACCGT	GTGGCCAGG	ATGTTCTCAA	TCTCCTTACC
98101	TCGTGATCCG	CCCGCCTCGT	CCTGCCAAAG	TGCTCGGATT	ACAGACGTGA	GCCACTGCAC
98161	CCGACCAATC	TGTCTTTTTG	TAGAGGGGCC	TCAAGCATGA	ACTTACTGAT	GGGTGAGAAA
98221	AACAGAATTT	TCTTTTCCCC	TACAATATAA	ACATTAATTG	TAATGTTATC	ATTCAGGACA
98281	TTTTGGTGAC	CAATCTTACA	GAAATTTTAT	CTGTGCAAG	TCTATGCAAA	CCAATATGTA
98341	AATCTTCTAT	AAGTGAGATT	GTATTTCACT	TTTCTAGTAT	CCTTTTAAAT	TAATAAAAGA
98401	GATTCTAATG	ATTATTTTCA	TTACTGCATT	TCATTGTAGG	GAAGTAGATA	ATTGCCCTTT
98461	ATTCACTGAC	CTTCGCTTTT	TAAAAATTTA	AACCATGTTA	CCATGAAAAAT	GCTTTTCAGT
98521	ATTTCTCTAC	ACACAAGATT	GCTGTAAGGG	CAAAAATAGA	GATAGGAATC	ATGCATCCAT
98581	TGATATACAT	ATTTTGATTT	TTAATAAGG	TTACCAAGTT	GCCTCCTGAA	GGTCTGTTTA
98641	CACCTCTACC	AACAGGGTGT	TTTTTCCTGA	CTTCCACAAA	TGCTCTTGAA	CAGTGGGTGT
98701	GTTAGTCTGT	TCAAATTGCC	GACATGAACA	ATTAAATCTC	ATTGTTGTTT	TTATTTTTAA
98761	GACAATTATT	GTTTGAGACT	GCACATTTTG	ATAATAACAT	TTCTTCTATT	ATGGTTTGAT
98821	TACTCATGAT	TCTTGCCCAT	TTTCTTTTGG	GATGTTGCCT	TATGTACATT	ATTTTAAATA
98881	GATAGCTCCA	TGTATTAAAA	GATTATTAAAG	TTTGAGGGCT	TATGATATGT	CAGTTACATT
98941	TCTAAGATTT	TTTTTTTTTT	TTTTTTGAGA	CGGAGTTTCA	CAC TTGTTGC	CCAGGCTGGA
99001	GTGCAATGGT	GCGATCTCGG	CTCACCGCAA	CCTCCGCCCTC	CAGGGTTCAA	GCAATTCTCC
99061	TGCCTCAGCC	TCCCCAGTAA	TTGGGACTAC	TGGCAAGCGC	CACCACGCCT	GGCTAATTTT
99121	GTATTTTTAT	TAGAGATGAG	GTTTCTCCAT	GTTGGTCAGA	CTGGTCTCGA	ACTGCCGACC
99181	TCAGGTGATC	CACCCGCCTC	GGCCTCCCAA	AGTGCTGGGA	TTACAGGTAT	GAGCCACTGG
99241	GCCCGGCCAC	ATTTCTAAAT	TCTTTATAAG	TATAAATTC	TTCAATCTTC	ACCAAAACTC
99301	AATGAAGTGT	GAGTACTATT	ATTATCATTG	TTTTACAGAT	CAAAACAAGT	AATACAGTCA
99361	CTTACTGAGT	TCTATACACC	TGGTAATTTT	TTTGTTCGT	TGTTCTATCA	ATTATTGGGG
99421	AAGGGGTGTT	GAAATCTCTA	CCTTTAAATC	ATGTATGTGT	CTATTTCTCC	TTTCGGTTCT
99481	ATCAGGTTTT	GCTACACATA	TTTTGCAGTT	CTGTTATTTG	GTGCATATAC	ATTTAGAATT
99541	GCTTGTTTTT	CGTATTGGAT	TGACCCTGTT	ATCATTATGT	AATATCCCTG	TCTGTTCCCTA
99601	GTAATTTTCT	TTGCTCTGAA	ATATACTTAT	CTGATATATC	ATCCAAAAGA	CCACCAGGAT
99661	GGCTAAAGAG	TAGAAAGGAG	AGATTTACTG	GCAATACTAA	TTTGCAAGCC	AGGAAGAGAT
99721	GGTCCCAGAA	CCTGCCAAAA	TTACTCTCTC	TTTGGGGAGA	AGGAGCAGGT	TGGTTATTTT
99781	TATGCCTCAT	AGGCTATATA	TTACACAATA	GAGTCATACA	TATTTAGCAC	GTTTGGGGGG
99841	ACAGCTATAT	ATATTATGAG	GGGTGCCAAG	TGCATTCACA	ATGGATAAAC	ACGTGTAATA
99901	TACCTCCCAT	GTTCACTTCG	AGGTTAAAT	TTGGTTAAAA	TGAGGTAGAA	TTTAGGTCTT
99961	TACATCACAA	GGTGAACAT	AGGAACAAAG	TTTACGTGCT	GCCTCTAGCA	GCTGGCTGAA
100021	AATGGCTTAA	GGTCTACAAT	TACGTGTAAG	AATAGAATGT	GTGTCAGGCG	GGTCCTCTGT
100081	CCAATCAGAG	TTGTAGTGGA	CTGGACTGTA	AATCAGAGTT	AGGAGGGCTT	CTGATAGCTC
100141	CTATAGTTAA	GGAATTTAGC	AAGTGTAGT	TTTTTGGTAG	TCTTTGGAAT	TTAGGAATTT
100201	GCCATGCCAG	CCAAGCCATG	AATGCTCTAC	CAGTAGGTAA	CTTTGTTTGC	TTAATCTTAG
100261	AGTCTGTCTT	AGTTGGTATA	GGGGCATCTA	TTTTGGTCTT	TCAGATCCCA	GATATTATTA
100321	ATACAGATAC	TCTTGCACTT	TTGGGCTGAT	GTTTATATGG	CTTATCTTTT	TTGCAGCCTT
100381	TAATTTCAAC	CTGCGTTATG	TTTATATTG	AAGTGAGATT	CTTGACAGACA	GTGTACAGTT

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100441	GTTGTTTTTT	TTTTTTTTGA	GATGGAATTT	CACTCTTGTT	GTCCAGGCTG	GGGTGCAGTG
100501	GCACAGTCTC	AGCTCACTGC	AACCTCCGCC	TCCTGGGTTT	AAGGGATTCT	CCTGCCTCAG
100561	CCTCTTGAGC	AGCTGGGATT	GCAGCCATGC	GCCACCACAC	CCGGCTAATT	TTTGATTTTT
100621	TAGTAGAGAC	AGGATTACCC	ATGTTGCCCA	GGCTGGTCTC	GAACTCCTGA	CCTCAAGTGA
100681	TCCGCCAGCC	TCGGCCTACC	AAAGTGCTGG	GATTACAGGT	GTGAGACCTC	GCGCCCAGCC
100741	AAACTGTTTT	TTTATGGGTG	TATTTATACC	ACACACATTT	AATGCAATTA	TTGATATCTT
100801	AGGGCTTAAG	TTCATGAAGG	GTAGTGTGGG	AACCATAGTC	TCTTGGCCCA	CTAAATGTTT
100861	GCCAGAAATC	ACTGACAAGG	CAGATTGATT	AATAGGTGAA	AAGGCATTTT	ACCTATTGTT
100921	TAACGTGTCT	ATGTGGGAGC	ATTGAGAATT	AATTACCTAA	CTTCCCAATG	AGTTATAGAT
100981	GCTTATATAC	CATTTTTAGA	TCACAGAAAG	AATTGGGGCT	TAGATTCTGG	TAAAACAGGT
101041	TATGGGAGGC	AAAAGAGGTT	TGGCTTGCAA	AGGTGGCCTT	GTTAGGTAGG	TGAAGCCTCC
101101	CTCAGAAAGA	ACAGATGGTA	AATGTTTCTT	TTATGATTTT	TAAGTGTGAG	ACTCTCAGTC
101161	TCTCCTGGAT	CTGGGGAAAG	GTATAGAAAG	GTGAGGAGGC	ATGGCTGCAT	TAATGGAGAT
101221	TCTCTACAGA	TGTAATAATT	TTCCCATTTT	AGGCAGCTTT	GCAAGCCCAT	TTCTGCCTGC
101281	TGGCCAAGCA	GCAGCCATTT	CAAAATATGT	CAAAGAAATA	TATTTTGGGG	TAAAATATTT
101341	TGATTTCTTT	TAGACTGGTG	GCCTTATAAG	AAAAGGAAGA	GACACCTGAG	CTGACACACA
101401	TACCTTGCTT	CTCTCAACAT	GTTATGATGC	AGTAAGAAGG	CCCTCACCAG	ATACTAATTC
101461	CATGCCCTTA	GCTTCCCAGG	TTCTAGAACA	GTAGGAAATA	AATTTCTTTT	CTTTAAAGT
101521	TAGCCAGTCT	GTGGTATTCT	GTTATAGTAT	CACAAAATGG	ACTAAGTAAC	TATATTATGA
101581	TCATCTTACA	TGACTGATCC	CTCCTACATC	ATACACATAC	ACAGGCCACA	TTTGGAACAT
101641	TGTTAGAGGT	TCCTCTACCC	AGTACAAATG	TACTACAAAT	TATATATGTA	TTTTTAAATT
101701	TTTGAGTATC	TTCAATAGTA	TATTTTCGTT	AACTTTTGTA	GTCAAAATGT	CATTATAACA
101761	TGTATTCAAT	ATGCATAATT	ATTAGTCAGA	TGTTTTACAT	TCTTTCTTCA	TACTAAGTGA
101821	TATGGTTTGG	ATATTTGTCC	CCTCTAAATC	TCATGTTGAA	ATGTAATCTC	CAATGTTGGA
101881	AGTGAAGCCT	GGTGAAAGGT	TTTTGGATCG	TGAGGGTGAA	CCCCTCATGA	AGCGCACTCT
101941	TCAGGGTAAT	CAATGGGTTC	TCACCTTGAG	TTCACAAGAG	ATCTGGTTCT	TTAAAGAGT
102001	GTGACACCTC	CCCCATCTCT	CTCGCTCAGC	TCTCACCATA	TGATATGCCT	ACTCCCTCTT
102061	CACCTTCCAC	CATGATTGGA	AGTTTCCTGA	GGACTTGCCA	GTAGCAGATG	CCTGCACCAC
102121	ACCTCCTGTA	CAGCCTGCAC	AACCGTGAGC	CAAAAAAAT	TACTTTTCTT	TATAAATTAG
102181	TCAGTTTCAG	GGATTCCCTT	ATAGTAATGC	AAGAACGAAC	TAACACACTA	AGTCTATTTC
102241	ATATTTACAG	AATAGCTCAA	TCTGAAGTAC	CCTTTTTCAA	CTTCACAGTA	GCTACTTGTA
102301	GCTAGTGGGC	ACTGATTGGG	AGCGTGTTCA	AGGGTGAATT	GTATTATGCA	ATTAACAGAT
102361	TTTTTTTATT	GTTTTGCAA	ACCACGAGGC	ATAGATTGTC	TTACTTTCTC	TGCTCCTGGT
102421	GTTGGAGTTG	TTATTGGGAA	ACAACCTATT	TTCTCTTAT	ATTTATATGG	AATAAATAAC
102481	CCCCAATATT	TCCCTCCCCA	ATATCTGCCT	TTTGATGTT	TTTTGAAGGC	AAGTGCCTAG
102541	AATTTACTGT	TTTTGAAGCA	CTTACTGAAA	GGATTGCCAT	CAAGTTGTTT	TGCTAATAGT
102601	ACATGCCAGG	CGCTTGTTGG	TTTGCTTAAT	TCAAGGTAAC	TTGGATGAGA	AGAAGAGTTT
102661	TTCTCATCCA	TGGCTCAGTG	GAGTATAGAT	TACTGATATT	GTGACTGGAT	GTACTCCTGC
102721	TTTCTAGTCT	GAGTTTTTGA	AGCTACCCTT	AATCTTGGTT	TCAATTTTAT	CTAGCCCTGT
102781	ACATATCCAA	GGCTCTTTCC	AAAATGGTCT	ACGATTTGTT	TAGGAAGTTA	GAATAGCTGT
102841	ACTTTCTGAA	CCACGGTTCC	TGACATTTTC	TGGACTTCAA	ACACATCCAG	CATTTTATCG
102901	AAGTATTTAT	CCTTCTACT	TGGCTGGCCT	CTTCTTGCC	TTGAGGTCTG	AATTCAAATG
102961	ACATTCTCCT	GATGAACTT	TCCATCCTTA	TTTCTATTCT	TTTTTCTTAT	CCCCTTTCTT
103021	TATTTTCTC	CACAGCACTC	ATCACTTATC	TCTACATTTT	CATTATGTAT	TTACCTTATT
103081	GTGCACCTCC	CACTACAAGA	CAAGTAGCAC	CGTAAGGAAA	CAGGTGTGCT	GCTTTTTTAC
103141	TGCTATGCTC	CCTGCACCTA	GAACACTCTC	TGGCACTTAG	CAGGTTTTCA	GTAAATATAT
103201	GCTGAACTAA	TAATGCTGGA	TATACATCTC	CCTCATGAAC	TCTCTAAATC	CTTCTAATTT
103261	ACATTGATCA	ATCTTCTTTT	CCATGTGCTT	TTGTATGATT	TATTGCTCAA	AATCTTTATT
103321	TTGTATGCAG	AACGTGCACT	GCTATTTAAT	CTTCATGTAC	GTAAGTCCTC	CCTTCTCTGA
103381	GTATAATCTC	TTCAGGGCAC	TATCTGAGAT	AACTTTTAA	CATCTCCATC	ATGAATCTTG
103441	TACCTTTTCA	AAGAAAATGA	GCCAGTGATT	ACTGATGTTT	ACGGCTATTG	TTGAGGGTGA
103501	AGATCATTAT	AATTTTGAAA	AGGGAAGTTG	AATATTGTGA	AGGGAAAGAT	AACACTAGAG
103561	TCAGAAAGACT	TGGGAGAAGG	CAAAAAACAA	ACTAAAAATG	AGCACTTTTA	GTCTCCTGAC
103621	AGTTTCTCTG	AATCAAATCC	ATAGTTCTGT	GACAGCGTTG	GCTTAGAAGC	AGATTTTTTT

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103681 TTTTTTTTTT TTGAAATGGA GTTTCGCTCT TGCCCAGGCT GGAGTGCACT GGCACGATCT
103741 CGGCTCACTG CAACCTCTGT CTCCAGGGTT CAAGCGATTC TCCTGCTTCA GCCTATGGAG
103801 TAGCTGGGAT TACAGGCTCC CACAACCACG CCCAGCTAAT TTTTGTATT TTTAGTGAAG
103861 ACTGGGGTTT CACCATGTTG GCCAGGCTGG TTACGAACTC CTGTTCTCAA GTGATCTGCC
103921 CGCCTTGGCC TCCCAAAGTG TTGGGATTAC AGGCATCAGC CACCGTGCCC AGCCAGGAGC
103981 AGATTTTTTT ACATCATGT TTCTTTTCC TTCTGTCATC CTGTTTCAGT ATAAGCAGAC
104041 CACAGATAGA AGTAGTAGAT ACCTCAGAAA TTCCTGGAAT AATTAATCCA CGTTCATCTG
104101 TACTCCATCT GCTCCTATCT CATGGAATAT AAAAGGAAAA ACACCAAGAT TTCCCTAGGC
104161 AATCTGTCTT GATTTTAGGT TCCTCAACAG GAGAGCCAGA CAATGGCTGT AATAATATTG
104221 TCCCGGCCAA GGAAAACTT CCCCTTTGCC CTCCAAGGT TTATGGAAAA TTACTGGCAA
104281 AACACAGATT AACTGGAGAA AAGGCATATA TATTATTTT ATCACAATT TACAGGAGAT
104341 TTTAGAATTA AGACTGAAAG ATACAGGGGA AATGCCCCAT TTTTATGCTT AGGTTCACAA
104401 AGATAAACAG CTGTATAGGG TACGATCTAA TGCTAACAGA CTGAGTGGGG AAGCCCCGCA
104461 AGGCTTGTCT GTCAAGATTC TTCTTGACCT CTCAGTGCAG CATTCTTCC TTCTGTTAT
104521 AGGACAAGAC TCTCTTTTAG AATGGGGGGT CTTATGACCT ACAGGCAAAC AAGGTAGGTT
104581 AGAGTAATAT TTTTAGGTTT TATGCTGGT TCTAGGGAAA AGGAGTTCTG GTTTGTATGG
104641 CCTACCTTGA GGAGGAATTC TGGTTTCTAT GGCTAGACTT TGGGGAGAAT GGGACTTACA
104701 GACAGGAAGG CAGAAGGTGG TCAGTGAAAC ACTTTTATAA TCATAATCCC ATTTTGAGTA
104761 TTTCTGTGTT ATGGAATGTT TGTCTCTCA TTCTGAAA GATTCCAGAG ACTCCTCATT
104821 CAGTGTGTG AAAAAGTTCA GGAATGCAA CTCAAAAATG TGCCACTTTG TTACGCTGAT
104881 TTCTTTGAAC TGAGGGCACC TAGGAAACAG TAAATTCAG GAAGGGCTTT CGCTGAACTC
104941 TAATCAAAAA TTTGAAAATT AAAAAAAAT TCAAAAAGGA ATTTAGTTGT TAAGATTCAC
105001 TTCCCTGGGG AATCTCATCA ACCAGAGAAG ATTAAGTGT TAACAGGAGA GGAGACTGGT
105061 GGTTAACACC ATCTAAACAG ACTTTGTCAC AGCTGTCACC TATTCTTTGA AACACCCATT
105121 TATTTTTCTC CAAAATCATA TACTCTCCCC TAAGTTGCCT ACATCCCCCT TCTTCTCCC
105181 TTATGAATCA AGAGAGCTTA TAAGCTTCTA CAGTTCACTG GGATTGGGG TATTCGCTTT
105241 TCTTCCCTCC CACTCCCCCT CCCCTTTTTT TGTCTTTGAG ACACAGTCTT CTGGCTCTGT
105301 CGCCCACGCT GGAGTGTGGT GGCTCTATGT GAACTCACTG CAACCTCCTC CTCTCGGGTT
105361 CAAGCGATCC TCCCACCTCA GCTTCTCGAG TAACTGGAAC TACAGGCGTG CACTACCAAG
105421 CCCGGCTTTT TTTTTTCTT TTTCTCCCC GTTCTTTTT TGGTTATTT ACTGGAGACA
105481 GGGTTTCTCC ATGTTGTCCA CGCTGGTCTC GAACGCCTGA CCCGCCGTCC TCGGCTCCC
105541 AAAGTGCTGG TATTACGGGC ATGAGCCACT GCGCCCGATT TGAAGGACCT CTAAATATC
105601 TATTTAGAAA TTGGTCGGAG TCCACTCCTT TCCAAAAACA TGAGTCACAA TCCGGGAAAA
105661 GCACGAGCGG CTGAAAGTCA AAATAACCAG AACAAAACCT CCACTCATGC TTAATAAAGG
105721 TATTTTGACA AAATCCTAAT TCGGCCAATT ATTATTAGTA TTCAAGTCGA AGGCTCGTCA
105781 AGCCAGACTG GGGATTGGGT CAAACATAAA CCTTACACCA GACGGAAGGA TTACATGCAA
105841 ATGAAGGATG CAGATTCTGA TTTCCATTG GGTATTTGAC ATTAGCCAAT GGGAGAATTC
105901 CTCACAGCCT ACCTCCAGTC AGTATAAATA CTTCTCTGCC TTGCGTTCTA ATGTAGTTTC
105961 ATTACATTTT CTTGTGGCGA TTTTCCCTTC TTATCAGAAG TAGTTATGTC TGGTCGCGGC
106021 AAACAAGGCG GTAAAGCTCG CGCCAAGGCT AAGACTCGGT CTTCTCGTGC AGGTTTGCAG
106081 TTTCTGTGG GCGGAGTGCA CCGCTGCTC CGCAAAGGCA ACTACTCCGA GCGCGTCGGG
106141 GCTGGCGCGC CGGTGTATCT CGCGGCGGTG CTTGAGTACC TGACCGCCGA GATCCTGGAG
106201 CTGGCGGGCA ATGCGGCCCC CGACAACAAG AAGACCCGCA TCATCCCGCG CCACCTGCAA
106261 TTGGCCATCC GCAATGACGA GGAGCTTAAT AAACCTTTGG GGCCTGTGAC CATCGCGCAG
106321 GGTGGCGTTT TGCCTAATAT TCAGGCGGTG CTGCTGCCTA AGAAAACCTGA GAGCCATCAT
106381 AAGGCCAAGG GAAAGTGAAG AGTTAACGCT TCATGCACTG CTGTTTTTCT GTCAGCAGAC
106441 AAAATCAGCC TAACAGCAAA GGCTCTTTTC AGAGCCACCT ACGACTTCCA TTAATGAGC
106501 TGTTGTGCTT TGGATTATGC CGCCCATAAA GATGTTTTT AGGTGTTTT AATGGCTTG
106561 AGTGTGGCAC TTTTAGTAAT TTGTCCTGCA GAAATTAGAT CCATAGAAAC CTCAGGAATT
106621 CTAGGTATGT GGGAGAAGTG CCATGCAGCA CAAAACATGT TTACAGGGGT GATTCGCGTT
106681 AAGTTTCACA CACAGCAGTT ACTACATTTT AGAGGAAGGA AATTATACCC ATGAGTGCAT
106741 TCCTAACTAT CTTGAATGGA AGTGTTAAAA CCCGCATGCC CCACACAAGT TTGAATATGT
106801 CATACCATTT GCTGTAGCAA TTAATGGCAT ACACAATTGA GAGCACACAC ATTACCACTG
106861 AACATTTGAG TATGTATTTT CAAAATGAG CTTTTTTCCA GTTTGGGGAT GTTTTGCTTT

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106921 GTTTTGGGGT GGAGTCTCCC TCTCGCCCAA GCTGGAGTGC AGCGGCGTGA TAACAGCTCA
106981 CTGTAACCTC GAACTCGGGC TCAAGCGATC CTCTTGACAG CCTTCTGAGT AGCTGGGATT
107041 ACAGGCGAGA GCCGCCACGC CCGGCTAAGA GCATTTTCT AATTGCCAC ACTTCTTATG
107101 CGACACCCAG AAAAATACAA TTTTAAATAA AGCGCATATG CAAATTTCCC TAATCGTCTC
107161 CAATATTCTC TGATTTCTTT TTTATATTTT AACTAGAAAC AATTGGAGGT TTCCGCGTTG
107221 CTTTGTGTGG TTGTAAATTT TAAGACTTCA GGAAACTTTT CCAGTACAAG ACTTGTCCAC
107281 AGTGGATATA GCAGCTAAGG GGTAAACAAA ATGACGTCAG AGTAGCTACG GTAATGGGCA
107341 GGAGCCTCTC TTAATCTGCA ACCAGGCACA GAGATGGACC AATCCAAGAA GGGCGCGGGG
107401 ATTTTTGAAT TTTCTTGGGT CCAATAGTTG GTGGTCTGAC TCTATAAAAG AAGAGTAGCT
107461 CTTTCCTTTC CTCCACAGAC GTCTCTGCAG GCAAGCTTTT CTGTGGTTTT GCCATGGCTC
107521 GACTAAACA GACAGCTCGG AAATCCACCG GCGGTAAAGC GCCACGCAAG CAGCTGGCTA
107581 CCAAGGCTGC TCGCAAGAGC GCGCCGGCTA CCGGCGGCGT GAAAAAGCCT CACCGTTACC
107641 GCCCGGGCAC TGTGGCTCTG CGCGAGATCC GCGGCTACCA AAAGTCGACC GAGTTGTCTGA
107701 TTCGGAAGCT GCCGTTCCAG CGCTTGGTGC GAGAAATCGC CCAAGACTTC AAGACCGATC
107761 TTCGCTTCCA GAGCTCTGCG GTGATGGCGC TGCAGGAGGC TTGTGAGGCC TACTTGGTAG
107821 GGCTCTTTGA GGACACAAAC CTTTGCGCCA TCCATGCTAA GCGAGTGAAT ATTATGCCCC
107881 AAGACATCCA GCTCGCTCGC CGCATTGCGG GAGAAAGAGC GTAAATGTAA AGTTACTTTT
107941 TCATCAGTCT TAAAACCCAA AGGCTCTTTT CAGAGCCACC CACTTATTTCC AACGAAAGTA
108001 GCTGTGATAA TTTTTGTG TCTTAACAGA ACAAATTTCT AAGGACCCCC CCGGAAAGCA
108061 TTAGACTATG GTCTTAAAGT TGATTAACAG AAATAACGGT TTGGTCAGTC TTGCAGTGTA
108121 GGTTATTTCT GACCTTATTA AGGTGCTATT TGGAGAGAAG CTGTGTAAGT CCACTATCAT
108181 TCAGGCCTCT AGCTTGCTAT GATTAGCATT TGTTTAAACA ACTTTGTAAG AGTAAGGGAA
108241 AAATCTGGTA AGTAGTTAAC TGGCGCTTAC TAGGCATTTT TGCAAAGCTT TGAAAGGATT
108301 AGAAAATTGT GTCTTGCAGG TTCCAGTGTC TTCCTCAAAA TGCTTAGGAA GATTTTCTCA
108361 GCTCAATACA TAGTCCCCTA GGTTTTCTCA TATATTATAT ATATATATAT ATATATATAT
108421 ATATATATAT ATATACTGTT AAATTCATTT GGCTGTAAAC ATTAACCTGA AATTTATTTCT
108481 GGTGCAAAAT GTGAGGCAGG GATCTAATG GCTCTCATTT TATCCATAGC TAGCTACCCA
108541 CTTTAAATCT GTCAGTCTGT CGACCAAGCA TAATTTAATC CCTTATATAT GAATTTTAT
108601 ATGTGTGGCT TTGCTGTAA ATAGTCTATC TGGTTGCATT GCTTTGTCTC CTCTAGGACT
108661 ATGCACCATG ACATGCCACA TTCCTTTTTT CAGTACTTCT TGCCTGTAGT TATTAAATC
108721 TAGAATTTAC AGTTTAAAC CATTTCTTTT CTGTTGATCT TGCTTTTCGG TTTTGGAGGT
108781 TGGGGATTGA GTACTGGAAG AAAATTTAGA GGGATGGGAA TACTGTACGC AAACAAAAGT
108841 AATATTTACT TTAAATTTT TATATTTTGT ATTTTATTAT CATATAGCTT TTACATCACA
108901 TTTTACAGAC TAACCTTAGA ACAACCACAG AATGTCCAAC ATTAAACTA CTAATTCCAA
108961 AGACCTTGCC TCACATCTT TTTTACAATA AATATTTTTC ACACCTAACA TTCTTTCTTG
109021 GCCTACATCT AGAATGTAAA CTGATGTACC ATACTAAAT CGCCTGACCA ACTGTCAACA
109081 ACAACAAATC ACACACACAA AAGATCAAAT TTGAATTGCA TCGTTTACTT AAATTCATTT
109141 GTGTTCCAGC TTTTAATAAG GCAGTTTTTG GTTTATAAAG TAATATTTGC ATTTTAAAAA
109201 TTATGAAAAT GAATATGTCA GTTTGTTTTA TGATTCGTTT TTCTTGACTC TTATACAAGC
109261 GACTCTAATC GGCATAGACA TTTGTTATCC ACAGACAGTA TAGATATGTT AGAGATGCCA
109321 ATGGACTTGG TCTATGCCAA GGTGACTACT CACAAGCTCT GGGCCCAGCT GAAGGTCAAG
109381 TATTTTTTTT CCAGTTATAG ATGTGCTGGA TCTGATGTAT AGCGCTTGAC TTTTATATT
109441 TTCTTTATCT GTAGGAAACA AATGTGTTGG AGGTACTGGG TCTGACGAAT AGCATAAAAG
109501 AATAAGTTA CATTACTGTC TGAGGATCAG ATGGACAGGG GGTGGTAGCT CAGTCCAGCT
109561 ATTTTCCACT CCTCACTTA CATTCTTTCG CCCCTCCTCA ACAGAACAAG GATTCTGCTG
109621 TAACCTTCA TTGACAGTTG ATATTTAAAA ATTAACGAAT GGATGAAAT CTCATTTGTG
109681 AAAGAAAATT TATTGAGCAT TTTGTATTG TGAGTAGTGC AAACATTTTA ATATTATATT
109741 AAGAATCTAT TGTTTTGTAT TAGAGGAGTA ATTAAGGAGA GATTGGAGAC AAAAAGGGGG
109801 TGTTGTTTGC AGAATATACC ATCCAAAAT AGACCACTGT GGGATCAGGA TTCTTTTGAG
109861 CTAAAGGCAC TTCAAAAACA GCATTCAAGA AGGGAATTCT TCTAACTTT TCTTCTGAA
109921 AACAGGAGAT AAAAGTTCCA ATGTGAAAAA TGCTCTGCTT GTACCAGGTG AAAAGACATA
109981 TTCTTCAGCC CAGAGGCATA GATGAGATAA TTCTGCACAA ACACAGCAGG GAGTCATAGC
110041 CGAGAGACTT CTATACACAA ACAAACCTTG TTAATAAAT CATATATTCC TTTAATCTCC
110101 TCATATGGTT TACTTTCCCA CAATTGCCTC TCTTTAAGTT AATGTGAAAG CATTTAGCTT

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110161 TTGCCATTTT TTTGGGGCTT CACTTTTTTTA TGAGGGTTCT CCTGTCCCAT AAAATTTACA
110221 TTAAATACAT TTGTATGCTT TCATTCTGCT AATCTGTTTT ATGGCAAATG AATTATCAGG
110281 TCCAGCTGGA GACCCTAACA GAGTAGAGGT AAAATTTTGC CTCCCTACAA GATAGAGATT
110341 GTGTGCATTA AATGTTGTTT GTTCCCAGTT GTTCAGTTTG TCAGGCCTCT GAGCCGAAGC
110401 TAAGCCATCA TATCCCCTGT GAACTGCACG TATGCCTCTA GATGGCCTGA AGTAACTGAA
110461 GAAACACAAA AGAAGTGAAA ATGCCCTGTT CCTGCCTTAA CTGATGACAT TACCTTGTGA
110521 AATTCCCTCT CCTGGCTCAT CCTGACTCAA AAGCTCCCCC ACTGAGCACC TTGTGACCCC
110581 CACCCCTGCC AGCCAGAGAA CAACCCCTT TGACTGTAAT TTTCCACTAT CTACCCAAAT
110641 CTTATAAAAC GGACCCACCC CATCTCCCTT CGCTGACTCT TTTCCGACTC AGCCCGCCTG
110701 CACCCAGGTA GAATAAACAG CCTTGTGTCT CACACAAACC CTGTTTGATG GTCTCTTCAC
110761 ACGGACGCGC CTGAAACAGT TTAACAGGGT TTTTCCTGCC CAGTCACAAC AAAGTGATGT
110821 TATGCTGCAG GCTGAAGTTT ACAGCTAATG CTGTTGAAGT CTAATAATCAG TTTTGGTTTG
110881 TTAGATTGGG GTGAGATGGC TAAGATTCTC AGAGAAAGAA GTCAAGTTTG GGGTGCATTT
110941 TTCAGACTTA AAAATTTAGC AGTAGCCCTT GCAGTTTTTC CAATAGAAGT GATTTACGAA
111001 TGTTTTTCAGG AAATTTAAAA CAACAGTGAG AAGCGTGTAT GGAGAGTTGA ACTACACTCC
111061 AGACTTGGCT ATAGGAAAGC ACGAATGCTG CTATTGTATT GCACCTTGGA AAAGAGAACA
111121 AAGGAATATT TTCGGACAAT TTTAACATGT CACATATGAA AAGCTAAACG GAATCTGTCA
111181 ACACCTTGTA CGTTATTACA GGCTGTGATT TTAATAAAAC AATCCTTACT AATACATACA
111241 TAGTTGCTGC TAGCAATATA GTGTTGGGAG TAAAAACACG AAAATGAGAG TTCAGGACAA
111301 TATCCCAACT CTGAGCAGAT TTTTTTAAGT AGTAACATCT AAAATTAAAC CATATTATGT
111361 AATATTTATT TCTTTTCCAC AGTCTCTTCT CATGCCTCGT TCACATTAGC TAATTTAAAG
111421 TCCCTGAGT ATCATCATAA CCCGATTAC AGATGAAGGC ACGGTTGCAA TGAGCTATCA
111481 CCCTCTCTG AATGAGACAG TACAGTGTGA AGGATAGCAA AACTCCACTC CCATCTCTT
111541 AGGGCTCTGG CTGGACCAGC AAATTAAT AATGTAAAT GGATTAACAG GAGAAAGGTA
111601 TATGCATTTA TTTAACACAG GTTTTACGTG ACACAGGTGC TCTCATAAGG TAATGAAAGC
111661 CCAAAAAAAG CAGTTAGCTA CTTATATAAT GAATTGGACA ATTAGTAAAA TGTAATAATG
111721 CGCTAAAGCA AAGGGATTTA GGCTAGAATA TATAACTGTG TAGAGAAGCG CCCAGCAAGG
111781 GCTAGTGCAA GGTGTGTACA GAATCTCTT GGCCTCAGCC TCCTATCCTT GAGAAGAATG
111841 TTGCTTTTTT TAACTACAG TGAGAACATC TTTCATATGA GAATTTCACT TACTGCTTCT
111901 AAGAAACAGG TCAGCTTTCA AGAAACATA AGGCCAGAGT GATCTTTTCA CGCCTGCTCT
111961 TTTAAGTACC TTTGAATAGT CAATATGTCT TCAAGCACTT GAAAGACTTA AAAAGTTTAC
112021 CACTCCGGCA TATTAGTGAA AGCCCTTAAT ATAAGCCCTT ATTAAAAATC TCAGTCGAGG
112081 GTATAAATTC AGATTCAAAT AGTAGTGTG TAAACGGGAG GGAAAAACTA AAGGGATTAA
112141 AAAGTGAAAC TATTGTGTTT TCCCTCGCAG TCCTTAGGTC ACTGCCCTC GAGGGGCGGA
112201 GCAAAAAGTG AGGCAGCAAC GCCTCCTTAT CCTCGCTCCC GCTTTTCAGT CTCAATAAGG
112261 TCCGATGTTT GTGTATAAAT GCTCGTGGCT TGCTTTCTTT TCGGTACCTT GGTTTTTGTT
112321 GTCAGCTGGT TAGACATGTC TGCTCGCGGC AAAGCGGTA AAGGTTTGGG TAAGGGAGGT
112381 GCTAAGCGTC ACCGAAAAGT GCTGCGGGAT AACATCCAAG GCATCACCAG ACCGGCCATT
112441 CGGCGCCTTG CTAGGCGTGG TGGGGTTAAG CGAATTTCCG GTTTGATTTA TGAGGAGACT
112501 CGTGGCGTTC TCAAGGTGTT TCTGGAGAAC GTGATCCGGG ACGCCGTGAC CTACACGGAG
112561 CACGCCAAGC GCAAGACTGT CACTGCCATG GATGTGGTTT ACGCGCTCAA GCGTCAAGGA
112621 CGCACTCTGT ACGGCTTCGG CGGTAAATCT TTTCTGTCAGT TTTCTTCCAA TGGCCCTTTT
112681 TAGGGCCGCC CACTCCCTCT CAGAAAGAGC TGTGATTGTA TTCTTTCGGA TGTTAACATC
112741 TCAATGGCTT TACTCGGCTA TTCTGCCTAG TATGTAGAAC TATTATAAAC CAGTTGGGAG
112801 AGACCAGGTT GTTTGGTCTG AGTGGCTGCT AAAGCAGAAA TCAGCTAAGT AAACGAGGTC
112861 TCCGAGATAA GTGAGCTATA AACTTCAATG CTATAGTTTT GACATGTCAA GCAACTTAAC
112921 GTGCAGCGCG AGTCCGATAA ATGAGTAGCT CAGCTTTTTA GTTTTAAAAA CGAGTTGTGC
112981 GTTATTTGTA CGAGAGCCTA AGATGCTAGC TGCCTGGAAC TGAGTAGGTG GATTAAAAATG
113041 GGTGTACAGT CTGTTTTCCC AGCGGTATCT GACTTAACGT CAGCAAAAGC TGTACTTTTA
113101 GCTTCCCTGG TAACACCTGC CGTCCCTAAC CGCCCCCTGC CGGTAGCGCC AGAAGCCTTT
113161 ACTTCCATTT CTAGTTGAGC TTGGCGTCTT GCTGAGTGAC GTCACCTCCC CCTTCTGTGG
113221 AGTAGGACTG GCGGTTAAAG CTGCTTTGCT ATTTTCAGTC CTCAGGCTGG AGGCTCCCCCT
113281 AAGCAGGCTG CCTACGCAGT TCGTAAATTC CCACTTAGTA GACTAAGGGA GTCTGTTTTA
113341 TAAATAAGGA CTCAAATTTT TTCTGACTCC GAGGTCCGTG GCAGCAGCTA TAAGATGGAA

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113401	GCCCCCTCTG	ATGTAAGATT	CTCAGATGAC	TTGCATCTTC	ACTGTACCTG	TCAACCCCAAT
113461	AGTCTTCTAT	TCCTGCCTTA	AATTGTAAAT	TCCAAAACCTG	ATTTAATTGT	GAAAGTTTCA
113521	AACGTGTACGA	CCTAGGAAGT	GTCAAAGTTA	GGTGACCAGA	TTTTTAGAAG	TCAGCCAAAT
113581	ATTCAGCATC	TTTGATTTAG	TAACAAATAT	ATTGATGGCT	ACTTCAGCAA	AAAAAATCAA
113641	CTTTGTTTTT	TGGTTACTTT	GCTAACAGC	TTCTCCTGAC	AGGAGGATAT	AGTGAATAGG
113701	CAGTTGAATA	AGTGAGTTCG	GGTGAGAGGT	CTGAGCTGGA	GATAAAAATG	TGTGAGTCAT
113761	CAGCAGATAA	ATAAATGCTG	AGACCAGATG	AGATGGCTAA	AAACTGAAAC	ATAATGTAGT
113821	GCAGCATTGT	TTGTAATAGT	AAATGAGTGG	CAACTGTAAA	GTTTTTCATCA	GAAAGGACTA
113881	GAGTGATCTA	TACATCCATA	AAATAGAGTA	TTTCTCTACA	CAGCCCTACT	AAAGAATGAG
113941	AAAGCTGTAC	TCCACTACAT	ACTCTGGTGT	ACTCTGGCTC	AGTTCTTGGA	CTCCTCTTTT
114001	CTTGGCTAAC	TCAACTGGCC	TCACCACCTA	CATGCTCTGT	GCTCTGTCAA	ATAGTTTGTT
114061	CAACAGAACA	CCACGGCCTA	GCTGTAAGTG	CCACGTTAAC	TTCTAGCAAT	GCCAAAGCCT
114121	GTGATAGTGG	CAGCTTCGGG	CTGTTTCTCA	TTCCCGGGAT	GCCTAACCCAC	CTCTCCAAAT
114181	TCTATCAGTT	TGCTTCCACC	CACTTCAAGC	TTCAGAACGA	AACATAGAGC	TTAAGAAATA
114241	TAGGCCCGGC	AAGGTGGCTC	ACGCCTGTAA	TCCCGGCACT	TTGGAAAGCT	GAGCCTGGTG
114301	GATCACCTGG	GGTCAGGGGT	TCGAGACCAG	CCTGGCCAAT	ATTGTGAAAC	CCCGTCTCTA
114361	CTAAAAAATA	AAAAAAATTA	GCTGGGCATG	GTTGCGGGCG	ACTGTAATCC	AAGCTACTCG
114421	GGAGGGTGAG	ACAGGAGAAT	AGCTTGAAC	CGGGAGGCAG	AAGTTGCAGT	GAGTTGAGAT
114481	CGCGCTATTA	CACTTAGGCC	TGGGAGACAA	GAGTGAAACT	GTGTCTCTAA	ATAAGTGTTC
114541	GCAATTATAA	ACCATCTCCC	TGACCTTAAA	TCTCTAGACT	CATATACAAC	TGCATATTTG
114601	ATGATCTTAA	TTGAATAATG	GGCATCTCGA	ACTTGTCCAA	AATATGTTTA	TACGTAAACA
114661	CCAAGTCTGT	TCTTCCTCTG	ATATTTGTCA	TGTCAATCAA	TAGAACTCCA	TTCTTCAAGC
114721	AGCTTGGGCC	AGGAATTGTG	CAATATTGTT	TGTCCTGAGC	TTCTTACAAC	TTTCACCCAA
114781	TGCAGTCAGC	TCTGTTGAAA	ATCAATCAGA	ATACCTTTCA	TTGTTTTCTT	TGCTGCTTCT
114841	CTAGGAGCAA	GCTGCCATGG	CGGTTTGTCT	GAATGACCAC	AGTGACCCCA	AACTGGTCTT
114901	TGTTTTCACT	TTTAATCCCC	CTGTCATACA	GTTTTTCTCT	ATCCAGCATC	AACAGTGATC
114961	CTTTTTGAAG	GTATTATGTC	CACTGTCTGC	TGAAAAGATT	CCACTGGCTT	TCCATCACCT
115021	TCATAATAAA	AACCAGCATC	CTTATCATAG	CCTACAAGTA	AGATGACCAA	CCATTACAGT
115081	TTGCCTGACT	CTCAGGGGTT	TCTCAGGGTG	TAAGACTTAC	AGTGCTGAAA	CTTAGAAAGT
115141	TCCAAGCAAA	CTAGGATGAG	CTGCTCAACC	TACTAGATCT	GTACTCTGGC	TACCCCTCTGA
115201	CCTCATTCTC	TTGCGAGTTC	TTTCTCTTCA	CTGACCTTGC	TGTTTCTGGA	ATGGACCAAG
115261	CATTTCCAGC	ATCAGCACCT	TTATATCTAT	TCTTTCTCCC	TAGAAGGGTC	TTGTCCTGGA
115321	TATCTGAATG	GCTCTAGATC	TCATTTTATT	CAAGCCTCTC	CTCAAATACC	AACCTTAAGA
115381	AAGAGACCTC	CCATAATCAT	CCCTTGTAAT	ATAAGCTTTT	CTGCTCATT	AGCATATATA
115441	TATATAGTTG	ACTATCCTCA	ATAGCATATA	TATATAACAT	TTCCCCACCT	AGAATTATAT
115501	ATGTAATAAT	ATATTTAACA	AAAAATACAT	ATAACTAGAT	ATATTTTATT	TTGTGTTTGT
115561	TCTCTCTCCC	CCAACCTGGA	TATATTTTTT	GAAGGTAGGG	ACTTTGTTTT	GTCCCAGAAG
115621	TATCCCTAGC	ACCTTGAACA	GGGCTGACGT	TTAACAGGTA	GTTTATGGAG	GTTTGTGAA
115681	TGAAAGGATG	TGTGAATTTT	CTATGTAAGT	CTCCAGGCTC	TCCACTAAGC	CCACCAGAAT
115741	GCTAACACAA	TCAATTCCCC	ATCTCATTCC	TTGACCTGCC	ACTGCCTGAA	GCAATCAGCG
115801	TGCAGTTTCT	CTTTAGAAAA	TCTGGGGGAT	AGTCTAGGGG	TTGCAAATTA	AGCAACATTA
115861	TCTTTGTTCT	GAACAAGGAC	TGCATGAGTG	TTAGGACTGA	AGAAGGCCCA	AGGTGGTGGT
115921	GGGTATGCCT	AAGATGAGTA	TGACATATCA	GCAATGCTAT	GAACATAGCA	ATGCTATGAA
115981	AGGCCAGGCA	AAACGTAAAC	GGAGCTAGTC	GTTGGCTTATT	GTTACAACGA	CTATACCTCC
116041	CATATGGGTA	ATCGATATCC	ACACACCCCT	CTACATTGAC	TCTGGAATTC	AGGAAAGGGA
116101	ATTAAATTTT	TCTAACTTAT	GTACCCCAAT	GATTTCAACA	ATATCTGGCA	TATGAGATCA
116161	ATAAATATCT	TTAAAATACC	AACCTAGAAA	GACATAAAAT	GACCCACCTT	CCATACCAGG
116221	CTCATTTTTG	CTCCTCTGAT	TCTGTAAACT	ATCCAGAATG	CAGCTATGAA	TTCTCTCCAT
116281	TGTCAGTTTT	AAATTAAGCC	AAGCTGGGTA	CTTGTGTAAT	TCCTCAAGAA	ATCCTGGATG
116341	AAAACGTGCA	GGTGGAAAAC	AGGACCTCAA	AATAAAGAGA	CATCCATCAC	TGAAGCTAAC
116401	ATCGTGAGGC	TGAAATCAGT	CCTATAACAA	TGGTACCAAA	AAGAGCACAA	TGAGAGGCAT
116461	TTGTGAATAT	TTACTCAGAT	GAGAGTAAGA	TATTTCCCTA	TCAGCTAACC	TGAAGTTCAC
116521	ATCCCTTTTC	CAGCTGAGTT	CTGAAGCTAG	ATGTACTTAA	CTGGAACACA	TAAGTGCATC
116581	AGGAACATCC	TTTAAACTA	TGGCTACAAT	GGCTTGACTG	GACAAACCCC	AGGCTTCCAG

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116641	GTTTAGCACA	GGTGCCCTT	CACAGACCAA	CATTGCCTAT	GCTACCAACC	TCATGTCCTA
116701	CCACCCTGCT	TGCATCATTT	CTCTCTCTGC	ATATATAAAA	ATATATGTGT	ATGTATATAA
116761	TCAGCTTTAT	TGATATTTAA	TATACCACAA	AATTTGCCCA	CTTTAGGTAC	AGTTCAATGA
116821	ATTTTACCGT	GTTTTCTTAG	TTGTACAACC	ATCATCACAA	TTTAATTTTCG	GAATATTTCT
116881	ATCACCCAAA	TTTCCATTTT	TGCGTAAAGG	GGGAAAAAAA	AAGGTTAACT	GCTGAAGGCC
116941	GCGGTAACAC	TGAAAAAGGT	GCCTTTTCTC	TCTAAAACAG	ATTTTAATCT	CCCCTGAATT
117001	TAGTGTCCTG	GGTATTCCAG	GAGTCTGAAT	AGGGTTTCAA	TTTTCAGGGT	CTTTTTAATA
117061	GAGTAAAACT	GTATTGGTGG	CGATAAATTT	AGTATTGCTC	TCAGTACATG	ATTGAGGGAT
117121	ACTTAAATGT	CTCTGTGATT	TTATTTTATA	ATCGCTAAAA	GATGGTTTTT	TTTTTTCCTA
117181	AAACAGGGTT	TTTGTTTTTT	CTCAATAAGC	TTCTTAGCTT	CCCCTCCGGC	TCCCTGGCTT
117241	GCCTCAGGAA	ATATTAGCTC	ATCAGTTCTG	ATTGGTTGAC	AGCTACGAAT	GGCCCTCATT
117301	GATTGGGCAG	CGCTTCTTTG	TCCCTTGGA	ACTAATACAA	ATTTTTAACA	CTACTTTTTT
117361	TCCACTCTTT	CTTCAGAGTT	GGAATATCGT	TGCTCCCCTA	CCCATATGTA	GTGAGTGGAG
117421	GGCAAACCTG	GAGTTCCCCT	AATCTTTTCT	TTTTAGGATG	TCAGCTCAGT	ATCATTTCATC
117481	TTAATTACAC	ATTGAGCTTC	TTGACTTAAT	GGATACAGCT	CTTCTTTTGT	TTAGTTGGGC
117541	GGCCCTGAAA	AGGGCCTTTG	GTTCAGAAAT	GCAAGCTGTG	GAGAAATCAG	CAACCTTAAC
117601	CGCCAAAGCC	ATAAAGGGTG	CGTCCCTGGC	GCTTAAGCGC	GTAGACCACG	TCCATTGGCAG
117661	TGACTGTCTT	GCGCTTGCG	TGCTCCGTAT	AGGTGACAGC	GTCACGGATC	ACGTTCTCCA
117721	AAAACACCTT	GAGCACCCCG	CGAGTCTCCT	CGTAGATCAG	ACCAGAGATC	CGCTTCACAC
117781	CGCCACGCGG	GGCCAGACGC	CGGATGGCCG	GCTTGGTGAT	GCCCTGGATG	TTGTCACGCA
117841	ACACCTTGCG	GTGGCGCTTG	GCACCCCTCT	TACCCAAACC	CTTCCCGCCC	TTACCACGTC
117901	CAGACATGAC	TTCCCAAGAA	GTGAACCAAG	AGCAAGTGAG	AGAATAGGAA	ACCGATCTTT
117961	ATATATCTAC	GTTACCCCTG	CCCCCACCTC	CAGCGGACAC	AGAGACTGAA	AAGCGCGCAG
118021	GCGGGAAATG	TGACGCCTAC	AGTCCGCTCC	TTTAACCCCT	CCTCCAAGCC	CCAGGAAATG
118081	GCGGGAGCAG	CGATTGGGGG	AGGGTGGGGA	GATGAGGGTG	GGACCAAGCA	GGCTTGACCA
118141	ATGGCCTTTA	TTTTCTTAAC	AGAGCTACAG	GCTTTGAGGA	ACTGGGTAA	GAATTAATG
118201	TAAACCCATT	CTGACTCCAG	AATTATTTTA	AGTCGAACTT	TTTTTTTAA	CGAATCTCTC
118261	TGTCGCCCAG	ACTGGAGTAC	ATTAGAGCCA	TCTCGATTCA	CTGAAACCTC	TGCCTCTCAG
118321	GTTCAGTGT	TTCTCTGCC	TCAGCCTTCA	GAGTGTACCT	GGGATTACAA	GCGCTCGCCG
118381	TCGCGCCCGG	CGTGTTTTTG	TATTTTTCTG	AGAGACGGGA	TTCGGCCATG	TTGGCCAGGC
118441	TGATCCCGAA	CTCCTGATTT	CTGGTAATCC	GCCCGCCTCA	GCCTCTTAAA	GTGCTTGAAT
118501	TACAGCGGTG	AGTCACCGCG	ACCGGCCGAA	ATCGATTGGT	TTTGAAGCCT	TCAGTAGCAT
118561	TAAAACGAAA	AGTGCTCCCA	ATGCATTCCC	TTTTGTCTTA	AATTGGTTTC	TTACAGCTAC
118621	TTTACTTGAA	AAGGTGGTGG	CTCTGAAAAG	AGCCTTTGCT	TGGACCGTCA	GAGAGACCAC
118681	AGTAATCACG	CCCTCTCTCC	GCGGATGCGG	CGGGCGAGCT	GGATGTCTCT	GGGCGATGATA
118741	GTGACGCGCT	TGGCGTGGAT	GGCGCACAGG	TTAGTGTCTT	CAAATAGCCC	TACCAAGTAG
118801	GCCTCGCACG	CCTCCTGCAG	AGCCATCACA	GCGGAGCTCT	GGAAACGCAG	CTGTGTTTTA
118861	AAGTCTGCG	CAATCTCGCG	CACCAGGCGC	TGGAAAGGTA	GTTTACGAAT	AAGCAGTTCA
118921	GTGGACTTCT	GATAACGGCG	GATCTCGCGC	AGAGCCACGG	TGCCCGGCCG	GTAGCGGTGG
118981	GGCTTTTTCA	CGCCGCCGGT	GGCCGGAGCG	CTTTTGCGGG	CTGCCCTAGT	GGCCAAGTGT
119041	TTGCGTGGCG	CCTTGCCACC	AGTAGACTTC	CGAGCAGTTT	GCTTAGTGCG	AGCCATGACG
119101	GAAAAACAGC	ACAGCGGAAC	ACCCAACACT	AGCGCAAATA	CGCCCATGAG	CTGCTCTATT
119161	TATAGTGTGT	AAAGTGCACT	GATTGGATGA	TAGAAGACGC	TAAATATGAC	GTTACACACT
119221	CTGATTGGTC	TATCTTTAAG	CCAGCAACAA	TCGTGCAGTT	TCACCGGCTA	CTATATTCTA
119281	TTCCAACCTT	ACAGATGATT	ATTTAAGTGG	TATTTTATTA	CTACTATTAT	TTTATTTTAC
119341	TTTTGCTTTG	TTCCCCAAGC	TGGTCTTAAA	CTTGGGCTCA	AAAGATCTTC	CCGCCTCAGC
119401	ATCCAGAGTA	GCTGGGATTA	CAGGGGAGCC	CCACTGCGCC	GGCTTGGACT	TTAATTTTTT
119461	AAACTTGTCC	TCTTCTACAT	CTGGTTTTCA	TAACCTGAAG	GCTGTGTTTA	TTTTCCATAA
119521	AACAAGGCAT	TGATTCCAAA	GGTATTATAA	TTCCCCAATT	CCGTATAACC	TTTCCAGTCTT
119581	TAGGAAAAAA	AAAAAAGAGG	GAATACTGCT	CACCTCTCTT	CCGGAAATGT	
119641	ACCTTTTACG	GGAATTTCTG	AAACCTTTCA	CAAGAATTGG	ATTCCTTTGT	AATGCTTTAA
119701	TTGACTTAGG	AGTGTTATTG	AAATCTACAA	AGCATCTCAA	ACATAGTAGG	ATTACACTAT
119761	TACTCAGAAA	CATTTTCTAT	GAGACGTCTT	TCTCTTGATT	ATGCTCTTTG	AATCCTAAAC
119821	TTGCAGCGTT	CTGCAGCTTT	TGTTTTCTAA	AGCCTAGGTG	TACTCTGCCA	GTCACAAAAT

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119881  GGCGTTTCTC CAGCACTGCC GCCAGGTACC ACCAGCTGGG AGTTGTTCTT CTTGCGGAGC
119941  AGGAGGTGGA CTTGGCCCAA GAGAACTGG ATAGTGGTTC GCAAGGAACA TAATTTAGCA
120001  TTGCCAAGAG CTAATGCAAT CATTTTGAAA ATCTCAAAAC ACTGAAAAGT GGATTGTGAC
120061  CTTTTTAAAT TCACAAGAGA CAGGCCACAT TCTATCTTTT GATTGGTTTA GGCTATTTTC
120121  TTGAACAGCC ATTTAGAAAG CAGATCTATC ATCCTTCATT TGCATGGAGC GTTCCCAATT
120181  TATTTGAAAC CAGTTTAACC CAATAGAAAA AAGGGAGGCA GAACCCATTA TTTAAAGTGG
120241  AAACTCCTGA ATCAGATAAT TAGGAGTATT TCCTTTTCAA AAGTTGCGTT TTTTCAGATA
120301  CCTCGCTTAT TACACTAAGA AAGGTTTATA TCTTTCACAA AGGGTTTACT TACAAAAATC
120361  TTCCAATTTT GTATACCTGT GTTTCATAAC TGACTAGCCG TCAAACCAAG ATGTAGAGTT
120421  TCCAACCGTT ATTTTCCAAA TTTTLAGAAA TTACGTGAAA TATTTGAATG CATGCCTTCT
120481  CAATAAAATG GGACGTAGGA AGCACTGGTG CAGAAGATGG GTACAATACT TATCTGGGAC
120541  CACTCCATTA TTTGGTTGGC ACGTTGTTTG AAGAAAAAGG GGAAAAGCTC AGGTTACTTA
120601  GCATGGTTCTG GACTTATTTG AAAACTACCA CAGCAGGAGC GGAAATAAGA CCGCATTACC
120661  TCACTCTCTG CTGTGCTGTG CTAGGGGGTT ATCCAGAATA GGATTGTAGA AGTGGATGTC
120721  GATTTAATAG TTTTATTATC TCCCATTAGC TGAGTCTCTG ATTGGCAATG TGAGATCGTT
120781  TTAGCTTATT GATACTTTGA AATGCACTTA ACAGCCACAA ACAAGTTAAA GGGTGTGTAC
120841  CATAAAATCT TATCCCCAGG GTGTGCTTGC ATTTATCACC CGTGTGTTGCT TTCACACTAA
120901  GTGGACTTAA CTCCCCAGCA GAATGCCTGT CAGGGAACCG GTTTCGTGGA CCCAGCATTT
120961  AACGCCTTTC GCAGGCTTGT GAGGCCCAT AATATTTGTT GAATAAAAGA ATGAGTTGAC
121021  CATGTCATGG TGCCTGATT GCGTGTGCTG ACATGGAACA CAGGTTGTAA ACCTTAATAC
121081  CAATTTGGGG CATGTTGTAT GGATGAAAAG GGCATTGGAA ATTCCTGAAG TGCATCCCAC
121141  ATTGGACTGT GGAAATAAGT TGCAGTGCAC GAAACGTTTC CACACTTGCA GTTTGAGTAT
121201  TAATTGCAGC GTTTGTGAAT TCTGGTGTG TCTACGATTC ATTCTTGTTC GACGTGAAAG
121261  GTATTGCGCA GACACATCGC TCTAAAACAT TGCCAGAAAA TGTAATAGAG TTGATGACAA
121321  CTGGCCCTAA CACGGCCTAA AACTCGCACT TTTCTCTCCC TCCGCAACTA TTCAAAACAC
121381  TGTATTTTAC ATTTCTTGCA AATTAAAAAC TAACATCTCT GGCAACGGAC CTCTAAAAAT
121441  TTCTAATAAA ACTCCTCGGA TGCTTGTGGC ACTGCATTTC TAAACCGCCC CCTCTCAACC
121501  TACTCCCTAA AAAAGAGCTG CTTTTTGAGA GAGAAGCGGT ACCCTCTGAT GTTACTGGGC
121561  GGCAGTCTGC CTACAATTC CTTCACAATG AGGCAACCAG AGCGGCTTTT TCTGTGTGTT
121621  TGCTTGCGTT GAGGGGAGCA GGACATAAGG CCCTAGAGGC CCCAGCTGC CTCTGAGAC
121681  TGGGCGAAAC CCTCGGCAGC GCGCAGGGGG CGCTAGGGCG CGAGGGGCGG GCACTGACGG
121741  GCACCAATCA CGGCGCAGTC CCACCCTATA AATAGGCTGC GTTGGGGCCT TTTTTTCGCA
121801  TCCTGCTTCG TCAGGTTTAT ACCACTTTAT TTGGTGTGCT GTGTTAGTCA CCATGTCTGA
121861  AACAGTGCCT CCCGCCCCCG CCGCTTCTGC TGCTCCTGAG AAACCTTTAG CTGGCAAGAA
121921  GGCAAGAAA CCTGCTAAGG CTGCAGCAGC CTCCAAGAAA AAACCCGCTG GCCCTTCCGT
121981  GTCAGAGCTG ATCGTGCAGG CTGCTTCCTC CTCTAAGGAG CGTGGTGGTG TGTGCTTGGC
122041  AGCTCTTAAA AAGGCGCTGG CGGCCGAGG CTACGACGTG GAGAAGAACA ACAGCCGCAT
122101  TAAGCTGGGC ATTAAGAGCC TGGTAAGCAA GGGAACGTTG GTGCAGACAA AGGGTACCGG
122161  AGCCTCGGGT TCCTTCAAGC TCAACAAGAA GCGCTCCTCC GTGGAAACCA AGCCCGGCGC
122221  CTCAAAGGTG GCTACAAAAA CTAAGGCAAC GGGTGCATCT AAAAAGCTCA AAAAGGCCAC
122281  GGGGGCTAGC AAAAAGAGCG TCAAGACTCC GAAAAAGGCT AAAAAGCCTG CGGCAACAAG
122341  GAAATCCTCC AAGAATCCAA AAAAACCCAA AACTGTAAAG CCCAAGAAAG TAGCTAAAAG
122401  CCCTGCTAAA GCTAAGGCTG TAAAACCCAA GGCGGCCAAG GCTAGGGTGA CGAAGCCAAA
122461  GACTGCCAAA CCCAAGAAAG CGGCACCCAA GAAAAAGTAA ATTCAAGTAG AAGTTTCTTC
122521  TAGTAACCCA ACGGCTCTTT TAAGAGCCAC CTACGCATT TACGAAAAGA GCTGTAGTAC
122581  ACAGATGAAA TCCCCAAGC AAATGCAACA CGCCCTCAAT TATATTAGAA TCACTTGGAG
122641  AGTCGATAGA ACTTTAACAT AGCCTCATCT AGTAAGAATT TACTACTCAA TCTATCAAAG
122701  ATAGCAAGGT GAATTCAAAT GCACCGAGTT AAAATCGAGT TTTAAAGTCA CCTGGGTTTC
122761  GGTAGCCGGA AGTCCCGCGT CTCACGACTC CAAGCTAATT AGTCATAACC GTATTGAACC
122821  AAGGTTGAAG CCCAGTCCCA GGCTTGAGGC TTTTATTAT ACAAGGTTAA AGTGGGGATA
122881  TTGCGTTTTC GGGTCAATAT TGCTAAAGTA GCATTTTCCG AAATTGGGTG GTCCTAAGAA
122941  ATGCTTCTGG GATAGTTGCG AAAATATATG GCTTAACCAC GCCCTCTCCA CAGGAGTGGC
123001  TAGCGAGCTG TCTGTCCTTG GGAAGGACGG TGACCTGCT GGCCTGGCTG GCGCCACGCT
123061  TGGCGTCCTC TGAAAGCCCC GCCAGGTAGG CCTAGCTCGC TTGCTTTCTG CAGCGCCATC

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123121 ATGACAAAGC TTTGAAACGC AAAATGCTTT CTTTGTGCAG CGCCTTACCA TGGGTGCACT
123181 TACGGGCTGT CGACTTGGTT TAGGCCCTTG TCAGGACAAA GGAGCTTAGT TTGTTGGAGT
123241 TTTAGAGCTG CAACCCAAAA TCCCTTGCTC GGTTTCTCTG TTTTGTAGAA CGGAAGCGCC
123301 CTGATTGGAT ATTTGAAAAAT TACTGTGCTT AACTGGATCG TGTTTCATCA ATCGTGCAGG
123361 ATTTTCAACC CTGGTGGAGC CCACACATTC AAAACTGAAG ATCCTTTTCT CAGAACTGCC
123421 CCTTTAAGCT TTTGCAATTT TAATTCTGGG GGTGAGATTT TAATAATTGG ACTTTTTTGT
123481 TTACATCTGA CAAGAGTATA TGATGAGCCA AGTTTACTCA CTTTACTTTA GTGCAGTTCA
123541 ATTCTAAAAG TTTATTTTTG CGTGTGTGCA TATGAGTTAA TAATCAGTTG TATTTTTTCAA
123601 ACGGTCTTTT TTCAATTGTT TTGCTTAGCT CCTTCCATCG TCTAAAGTCA GGGATACAGG
123661 CACATCACAT CCCTGTTCCC CCTTCCTCAA ACTAATATGT AGCTACCTAG GTTTATCCTT
123721 TAAAAACAAA ATTCTCACCT ATTTTGTGTA GAAATATACA TGTTTTCTTT TGAACCTAAGT
123781 ATTTTACATA CACCTATCTA TATACATGCA TACTTGTGGT TTTGTTTTTT TAAAAAATAA
123841 AAAAAAATAA CACGTTATCT TTTGAGACTG GGTCTCAGTC TGTTGCCAG ACTGGACTGC
123901 AGTGGCATAA TCACAGCACA CTGTAACCTC CAACTCCTGG GCTCAGGCTA TCCTGCAGCC
123961 TCAGCATCCG GAGTAGCTGG GATTGCATGC ACGCACCACC AAGCCGGGCT TTTTGTTTTT
124021 ATTTTTTGTG GAGACAGTCA CACCATGTTG TCCAAGCTGG TCTAGAAATG GCCTCAAGTG
124081 ATCATCGACC TCCCAAAGTG TTGGGATTAC GGTCACTGTG CCTGGCCTTG TATGCATAAT
124141 TGTTTTGTCT TTTGATTAGG GTTATTAATT TAAAAACAA AGCCTGGACG CAGTGGCTCA
124201 CATCTGTAAT CCCAGCACTT TAGGAAGCCG GATGGGCAGA TTACTTGAGC TCAGGAGTTC
124261 AAGACAGCC TGGGCAACAT GGTGAAATCC CATCTTGACA AAAAAACAA AAAATTAGCA
124321 AGGCCAGTG GCACGCACTT ATAGTCCCAG CTACTTGGGA GGCTGGGGTG GGAAGATGAC
124381 TGGAACCTGG GAGGTAGAGG CTGCAGTGAG CAGAGATCGT GCCACTGCAG TCAAGCTTAG
124441 GTGACAGAAT GAGACCCAGT CTCAAACAA AAATAATAAA AATTTTTTAC AACGATGTTA
124501 TATACACTTC TGCATGTTGC TTTTCTCTTA ACCAACTTTT TCTAAAACCC TGTCATGAAA
124561 AAAGAAATCC TTCACATGGA ATAGCATAAG TTATTCATCC ATTTCTTATT GATAAGCATT
124621 GATGTTTCCA GTTACCACTG CTGAACATGG TGCAATTGAA TAGAATTCCA GGGCTGAGAT
124681 TGCTAGGTTT TAGGTTGTAT TTTATTATTT TATTTATTTA TTTATTTATT TAGACAGAGT
124741 CTTACTCTGT CACCCATGGT GGAGTACAGT GCCATGACCT CAGTTGCAAC CTTTGCCCTC
124801 TGAGTTCAAG CGATTCTCAT GCCTCCGGTC TCCCGAGTAG CTGGGATTAC AGGCACCTGC
124861 CACCAGGCCT GCCTAATTTT TGTATTTTTA GGAGAGATGG GGTTCACCA TGTTGGCCAG
124921 ACTGGTCTCA AACTCCTGGC CTCAAGTGAT CTGGCCACCT CGGCCTCCCG AAGTGCTGGG
124981 ATTACAGGTG TGAGCCATGG CTCCAGACCT GGACTTTGTC TTCTGTTTCA TCAGTCCCTC
125041 TGTTGGTTCA AGCACAGTAT CACACTGAAG ACTGATGATT CTATATAAAT ATGGTAAAGA
125101 CTGTACACCC TAACTGTTCT TATTTTTTAA TTTTAAGGCA ATTTTAGATT CCAGCTTTCC
125161 AAAGAATTGT GGAATGCTTA GAGCTAGAGA AGCCTTGGAA GTCATTTAGT TTTGTTTTTG
125221 TCAGAGAAAA TTCTGTAGAG ACTCTGTCCT GCTCTCACTG AATACCATCC CATAGTACCC
125281 CCCAACAGCT TTAAAGGGCA ATAATACCTT ATGGACAGTA TGCTTTTCTT CAAATATATT
125341 CTAAGCCATG GTCAATGCAA AAGAGTGAGA AGGAAAGTAG AATAAGTTAT CTAAGAATCA
125401 GTGGGTGCTC TCTTTAAACT GATTTATCAC TCCCCCTTCC AAACCTCTCT GAAGGCTCACT
125461 CTGCCTCCCT TTCTACATAA GAACTCCTAA CTCCAAGGGA GGAAGGTAAG TTATTCTTAT
125521 TCCTTGCTTA GAAAAAGAGA AAATAGGTTT GGTAAGCATC CGCTTTCTGC TACCATTCTC
125581 TGTGTTTCTG TGTTTTTTAT AGGATCATTC AATTATTGGT TGGCTCTTGA GAGGGAATGC
125641 AAGGTTCAAG GACACAAGCC TAGATCTTGC CTGTATAGAA CCTCATGATG TTATGCTTCT
125701 CTAAAATGAG GCCTGGAGGA GACATGTTGA AAGTGACCCA TAAATCTGCA GTATCTCATG
125761 TCTCTCAATG GGGACAAGGA GTACCATGGG AAATAGCATT AGGTCAATGA CAGTAACAAC
125821 TCCCAGGTGA GTTGATTTAT TCTTTTATTT ATAAAGTTGT TAATATGCTA CATAGTCCCT
125881 AATTTTGCCA CAAATAGTCA TTATTTTAAAT TTCATATTTC ACTATTGATA AATGAAGGAA
125941 AAAATGAGTA GCAGTTAAGC AGTCCATAAA CCTACATATA AAGCAAATTG GAGATTTTAA
126001 AATTGATTCT GGATGCTTAA AATCCTTCTC ATTGAAAAAA AATTTCTGAT TAGAAGATTT
126061 CAACATTCTT TAAACTGAGA AGCATAACAT ATAAACAGAA AACCACAGCA AAACAAAAAT
126121 GCAAAGCTCA ATAAATGAAC ACAAAGTGAA CACCATAATA ATTGCCACAC AAGTAAAAAA
126181 ACAGAAAATC AGCCAACCCCT CCCAGAGCTG CCTGATGCTT GCTTCCAGTC ACATTATCAC
126241 TCCATCTGCC CTAAACATAA CCCCTATTTT GATTTCCAAT GCTGTAATTT AGTATGCCTG
126301 TTTTGAAC ATATAAATG GAAATAAAC AAATGTAATC CTATGTACCT GACATATTTT

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126361  ACTCCAGAAC  ATTAGGTTTG  AATAGATTCA  TCTGTGTTGC  TGTGTATAAC  TTTAATTCAT
126421  TTTTATTGTT  ATGTAATATT  CCATGTTATG  AGTGCAACAA  TTTAGGTGTC  TACTGTTGAT
126481  GCATATTTGC  TTCCCTTTTT  CAGCTAATAT  AAACAATACC  GTGAATATTC  CTGTGTATGT
126541  GTCTTGGTAT  ATATAGGAAT  ACATATTTTG  TTTGTATACC  TAGGAGAGGA  ATTGTTGGGT
126601  CAAATGCTAA  ACTCTTTTTG  AAAGTGGTGA  TATTAGGTTT  ACATGCGATG  AAATGAAAAA
126661  TAAACCACA  GTTATAAACA  GCATGGATGA  ACCTCACAAA  CCTAATGTTG  ATGGAATCTA
126721  GCTGGGAATT  CCTGTTCTTC  CATATACTTC  CCAATATTTT  TTTCCAATTA  AAATGTTTAA
126781  TCTTTTGAAG  ATGTTATCCA  TTGTGGCAGA  TGTGCAGTAT  TATCTCATT  TGGTTTATT
126841  TTACATCTTT  TGCCCATTTT  TTCTTAATTG  GATTGTATAT  CAGTCGACTT  GGGCTGCCAT
126901  AACAAAAATA  CTAGACTAGG  TAGCTTGAAC  AAAAGGAATT  TATTACCTCA  CAGTTCTAAA
126961  GGCCAGGCCA  GAAATCCTAA  ATTGAGGTGC  CAAGAGATTC  AGTTTCTAGT  GAGGGCTCTC
127021  TTATTGACCT  GAAGATAGTT  GCTGTCTTAG  ATTGTTTGGT  GCTGAACAGA  ATACCAGAGA
127081  CCAAATAATT  TATAAAGAAT  ACAGATTTAT  TTCTTACAAT  TCTGGTGGCT  ATAAAGCCTA
127141  TGGTCGAGGG  GCCCACCTCT  GGCAAGGGCC  TTCTTACTGT  TATGGCAGAT  GTGAGATGTC
127201  ATCTCATATT  CAAACCACAG  CAGTCGCCTT  TTGTGTCCTC  ATGTGGCCTC  TTCATATGCC
127261  CATAAAATGA  CCTCATGTCT  CTTCTTTTTC  TTATAAGGAC  ACCAGATCTA  TCAGACTACT
127321  GGCCTACTCT  TATGACCTCA  TTTAACCTTA  AATATCTCCA  TAAAGTCCCA  AAATCCCTAT
127381  CTCCAAATAT  AGGCACATTG  GGTGTTAGAG  TTTCAACATC  AATTTTGGGG  GAACACAATT
127441  TAGGCCAAAA  AGATTGTGTT  TTTTCTTGTT  GGTTTAAGAT  AGCTGTCTTT  TTGTCTTTT
127501  TGTCTTTTCT  TTTTTTTGA  GGTGGACTCT  TGCTGTGTCA  CCCGGGTTGG  AGTGCAGTGG
127561  CGCTGTCTCA  GCTCACTGCA  ACCTCCACCT  CCTGGGTTCA  AGAAATTCTC  CTCCTCCCAA
127621  GTAGCTGGGA  CTACAGGTGC  ATACCACCGC  GCCCTGCTAA  TTTTGTATT  TTTGATAGAG
127681  ACGGGGTTTC  ACCATGTTGG  CCAGGCTGGT  CTCAACTCC  TGACCTCAGG  TGATCCACCT
127741  GCCTCGGCCT  CCCAAATGC  TGAGATTACA  GGTGTGAGCC  ACCAAACCTG  GCCTGTCTTT
127801  TCTGTTTTAA  GTTTTAAAT  TTTGCTCAG  AACCCTTTAT  CCATTTTATG  TGTTCAGGT
127861  ATTTCTCTG  TAACTTGCT  TCACCTCTG  AGAGGCTGGA  GTGCAGTGGC  ACAATCACAG
127921  CTCCTGTCAG  CCTCCACCTC  CCAGGATCAA  GCGATCCTCC  CATCTTATCC  TCCTTAGTAG
127981  GTGGGACTAC  ATGTGCAGGC  CACCATGCCC  AGCTAATCTT  TGTATTTTTT  TGTAGAGATG
128041  GTGCTGTTGC  CCAAGTTGGT  CTCAACTCC  TGAGCTCAAG  CAATCCATCA  ACCTTGGCCT
128101  CCCAAAGTGT  TGGGACTAGA  GGTGTGAGCC  ACCACTGCAC  CCAGCCAATG  ATATCTCATG
128161  ATGCATTAAA  GTCATTAAAT  TAGTGTACTC  AAATTAAGCA  CACTGCCCTT  TTATGCACAA
128221  CCTTTTTTGT  ATCTTATTTA  AAAAATCATT  TTCTATTTCA  AGGTCATGAA  GATCTTATTT
128281  TATAATACCT  TCTTGTGAAA  TTAGTCTCTA  AGACTACCCT  CACTTCTAAC  ACCAATTATA
128341  AGTTGGGAGG  TCTGTGGTTC  CCAATCAACC  TTAGGTTAGT  AATTTGCTAA  AAGGACTCAC
128401  AGAAGTTGCT  GAAGCTGTTA  GCCTCATGGT  TACAATTTAT  TATAGGATAT  ATAGCTTATT
128461  ATGTCAATCC  AATGCAATGT  AAAATTATAC  AACTACTTTT  AAAAAGATTT  TAGCATTGTA
128521  CCCAACAAAT  TCACTCTGAG  GTATACAAAC  AGCAGATATG  TGTGCACATA  TATACCAAGA
128581  CACATACACA  GCAAAATTCA  TTGTTTGTA  TAGTTGAAAA  GGGGAAACAA  CTCAAGGAAT
128641  AAAGATTAAA  ATCAGCTGAG  AAAAGAAACA  CACAAGGCAG  TATTATGGAT  CGAATTGTAT
128701  GCAGATCTCC  CTTGCCCCCA  GAAGATATGT  TTAAAGTCCC  AACTCCCAGT  ACCTCAGAA
128761  TGTGGCCTTA  TTTGGAAATA  GGATAGTTGC  AGATATAATT  AGTTAAGATG  AGGTTATAGT
128821  ACAGTATGAT  GGGCTGGTGA  CTTAGAAGAA  GTAGTATATA  TATATTTTTT  AATAGAACTA
128881  GTATTCTTCT  AAGGTGGTCA  CGTGAAGACA  GACACACACA  GGCAGAGACT  GCGGTTATGC
128941  AGCTGCAGGT  CAAGGAATGT  CAAAGGTTGC  CAGCAAGTAC  GAGAAGCTAG  GAAGAGTCAA
129001  GGAAGGATTT  TCCTACAGGC  TTCAGTGGAA  GCATAGATCT  AATGATACCT  TCATGTCAGA
129061  TTTCTAGCTT  CCAGAACTAC  AAGAGAATAT  ATTTGTTGTT  TTAAGCCACC  CTAGCTTCTA
129121  GCTCTTTGTT  ACAGCAGCCC  TAGGAACTA  ATATAGGCAC  AATCCAGGCA  AGTTCCAAAT
129181  ATGAGCTTCC  AGTTGTCCTC  TCCCAGTAAT  ATGAACAGTA  TTAATTTCCC  AGCATTAATG
129241  TGTGACAATA  CACATGACGT  ACAGAGCAGT  CCCACTTAT  GCACAAAACA  TATGTTCCAG
129301  GACCTCCAGT  GGATGTCTGA  AACCATGGAT  AGTACTGAAC  TCTATATAGC  TGTTTTTTC
129361  TATACAGACA  CAGCTATGAT  AAGGCTTAAT  TTATAAATTA  GGCACAGTAA  GAGATTAATA
129421  ACAATAAATT  AGAATAATTG  TTAAGAATAT  ACTGTATAAA  AGTTAGGTGA  ATGTTTATTT
129481  CTGAAATTTA  CCGTTTATTA  TTTTGGACT  GCAGTAGACC  ACAGGAACTA  AAACCATGTA
129541  GAAACCGTAT  ACAAGAGAAC  TGTATTTTAC  CCGAGCCTCA  GTGTGCAGTT  TTAATGGCCT

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129601 GCCATGGTTG ACTGCTCACA TGGCCGATCT TTTAGTCTAC CTCCACAGGT AGAGCTGATA
 129661 CTGTGTGGCT CAAAGTTCCT ATTATAAATC ACATTGTTGA CTGTGTGGTG GTCAAAACCT
 129721 CCAGGTAAAC AAAGACACAC TTATCAGTGA GAACATTTC AAGGTCTAAA ATTCATCTCC
 129781 CAGTAGCTGA GGGCAAAGGC TAGACCTCTT TTTGGGTAAG ATAAATTTT TACCATATAC
 129841 TTTATTTTGC TTTTCATGTT TAACTTTATT TTGCTTTTCA TGTTAGTTCC CCTGGAATTG
 129901 TTTTTTGTGT ATAGTGTGAA GTAGGGGGTC AAGTTTCTTT TTTTTCTTT TTTGTTCTTT
 129961 TTCTGTTTAA AAGGCTATAC AATTGTCCCA TGCCATTTAT TTACAAGAGT CCTTTCACCA
 130021 TTGTTGTATG GTGCCACTTT AGATGTAAAT CAATGTCCAT ATTTGTTTGA GCCTGTCCA
 130081 TTCGTTTGTC TATTTTGGGA CAACACTGCC CTGATTATTG TCATTTTATC AGTTTGTGATA
 130141 TTTAATAAAG CAACAGATTT GTTTATTTTG GGCCCTTGA TTTGTGTATT AAATTTGAAC
 130201 CCTGTTTGTC AATTTCTATA ATAAAGCTTA TTGGGAATCT GATTAGGATT ACAATGGTTT
 130261 TGTAGATCAG TTTGGGGACA ATTAATACCT TTAATATATT GACCGCTTCA ACTGTAAATA
 130321 TACTCCTCCA TTATTTAGTT TTCCTGTTTA ATTTATCTGA GTAATACATT ATAGTTTCT
 130381 TCGTAGAAGT CAGATACGTA GAAAATTC AAGCCCAAGTG CAATAGCTCA TGTCTGTAAT
 130441 ACCAGCACTT TGGGAGGCCG ATGTGGGTGG ATCACCTGAG GTCAGGAGTT TGAGACCAGA
 130501 CTGGCCAACA TGGTGAAACC TCATCTCTAG TAAAAATACA AAAATTAGCT GGGTGTGGTG
 130561 GCGGGCACCT GTAATCCCAG CTAATCAGGA GACTGAGGCA GGAGAATCGC TTGAACCCAG
 130621 GAGGCAGAGG TTGCAGTGAG CCAAGTTCCT GTCACTGCAC CCCACCCTGG GCGACAGAGC
 130681 GAGACTTCGT CTCAAAAAAA CAAAAAAG AACATTCAAA TAATCAATGT AGATAATTCA
 130741 AATAACTAAA AAATGAACAG TTATTAATAT ATCAGGATAT AAAAGCAAAA AAATCAATAA
 130801 CCTCCATATA TACAAAATGG CCAGTTAGAG AAAAAAAG GAATAGGCGA GACTTAAAAA
 130861 GGCTGGGAAT CTCCTGAAA ATCTTTGAGA GCCTTGGCCC TGCCCTCAGG GATTCTCTG
 130921 GCTTCATGCC CAGATATGGG TACAGTTTCT TGTTTAAAAA AATTTTGCTC CATCAATCAA
 130981 CAAGGGGCTC CTTCCTCAGA GCACAAGGAC CTCCATAACA CCGGACACTA GATGTCTAAG
 131041 GGACACCTCT TAAGGAAGTT AGACTTCCAA AGAATGGTGT TTCCTCTGTC CCCAACTCT
 131101 GGAACCTACA GCACAACCTG TCCTTGAGT TCGGTTTCAA ATCTACAAGG CTGTCATGGA
 131161 GGTTCAGAC CAAGTCCGTG GCCTCAGTGT CCGGATGTAC GGTGGCCTTG GCACCTGAAT
 131221 GTGAGAACAT GACCTCCCTG AAACCACCAC AAGTATTGTT TCATGTTATG TATGTTTTTT
 131281 CTTATCTGAA ATTCCTTTT TTTAAAAAT CAAATTACAT ATTTTCAAG CCCCTGAACA
 131341 AGCTTCATGA GCATTTATTG AACCACAGC TTTTAAACC TACTGAACAC TTTGCTCTAT
 131401 GTTGTCAATC ACTATCCACC AATTATTTAA TTATTGATCA ATATTGTTT CTTAGTGTG
 131461 GGATCATTTA TGCATGTATT TCTTTTATAT TGCATATTT ATATTCTGTC ATTACAGTTA
 131521 TTACATATTA CTTTGTCTAC AGTAATAGTT CAGAAGTGTA CATCCAAAAT TTAGCTGTGA
 131581 AGTGGATGGA CTGAGGCAGA ACTGGAGGCA AGAAAATGTC ACAGTAATTC TAAAAAGAT
 131641 GATGTACAAT TAGAGCAAGA GAGTAGCACT GAAATTGAAG AAAAATAGAT GCGTTTGAGA
 131701 GAAAATTAGG AGGTAGAATC AACAGATTAG ATGTAGGGAT GAGAAGGGTC AAAGATGACA
 131761 CTAGGGTTTT TAAGTGGAGC AAGTAGGTAG ACAGAACATT TCTTCTGAA AGGGCAGGTC
 131821 AGATCATGTG TTGTCTCAA GGGCATGAAG AGTAGAAAGC CTGGGACAGA TCCTGAGATG
 131881 ACCAATACCC ATGGTGCAGG GAGAGGGAGG GAGATCTGCT AAAAAGACTG CAAATGTGAG
 131941 GATAGTAGAA AATCATGAGT GTGTGATGTC CTGGAAGTTG AGACAGTATC ACATTTGAGA
 132001 ACATTTAAAT TGGTAACTCT GACAAAACCT GGAGGCCAAC TGTGAATGCC CATGAGAGTG
 132061 AGAAGCTCCC ACACTTTGT GGGCATCAGA AAGCCCACCA GGTTCCTGCA GTGAAGATCT
 132121 GAGAAGGATC CTCTTGTGGC TTTGGCAGGG AGAGAAGAAT TATTATGAAA TACACCCAG
 132181 AACCTTCTTC AAAACAAAGG CCTACTCTCA AGGGGAAAAC ATTTTGCCAG AGTCTTATCC
 132241 CAGCTGGGAG AAGGTAAATC TTCCCACTGC AGCCTCATCT AGGCTTCTG TCTCACTTAA
 132301 GGGAGAAAAA TTAGTCAACA GGGATCAGAG CTTCATGAAA ATAAATTGGA AATGGTGCAG
 132361 CCAGGAAAGG AGCAAAGGTC TGAGGAGGAG GAGAAGGAGG AAGAGGAGTT GTATCATTAT
 132421 AAATACTTGA GGAAGAGGAG GAGAAGGAGG AGGAGGAGGA GTTGTATCAT TATAAACACT
 132481 TGAGGAAGAG GAGGAGGAGA AGGAGGAGGA GGAGTTGTAT CATTATAAAC ACTTGAGGAA
 132541 GAGGAGGAGG AGAAGGAGGA GGAGGAGGAG TTGTATCATT ATAAACACTT GTGACGGTCC
 132601 CAGCCCCAAG ATATAGGCAT GCTAATAAAC TGAGGCTTAA CACTTTGACT ACAGAATGCT
 132661 GCTTCTCCCT AACACCATCA AGGCTCCAAC TGAATAACAA TGAATTATGA ATGAAAGAGC
 132721 TGTAAGGAGA GACAAAAGTT AGAATGAGAC AAGTATTGTT ATCTAGAGAT GCCAAGAAGG
 132781 CAAGGAAGAT AACTAAAAAG GCACTCTGGA TTTAGAAATA GGAAGTCATT AGTGACCTTG

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132841 TAAATAATGG AGCCAGAGGA ATACCAAGGG CAGAAGCCTC ACTATAGTGT GTTGACCTG
 132901 TCAGAGGTCA GGAGGTGTAA CTGACTCTCC CACAGTGTGG CTTTGGAAGA GAGAAGTCAG
 132961 CAGCTGCATG GAGATTTGGG AGAGGGAAAG CTTTTTTTTT TTTTTTTTAA TTGGAAAAGA
 133021 CTGAGCTATG TGTAATAGA ATAAGACAGG AAGAGTGTAG ACACAGGAAA GAGGGCAGAC
 133081 AAAACAAGT GCACAGTTAT CTAAGGGAAA CAATGGGATC AAGCTGCAAG TATATAAACT
 133141 TGTCTTGATA GAAGAATCCT TGATCTGGTT TATTCAGTGT TTGGTCCAAA CCCACATCCC
 133201 TGTTCTGCC TGTCTGACT TGCTCTGTGC CCCAGAAGCC CAGCTTCTAC AGATAGCATT
 133261 AGCTGGGCAG CCCTGCCCTC TTGCAACAGC TGGATTTGGC CAGTGATCAG CCCAGCAGGA
 133321 ATGTAGATGG CAAAGGAGAG AGAGGTTAGT GTACTTATTC CCTGCATCAC CCCCTGCTT
 133381 GGTGGGCAGC TCTTCCTCCA CAGTCCCAGC TCTGGCCTAG CTCTGGTTAC AGGTTCCCTC
 133441 CCATTGCCCTC TTCAGATTTA AAGGTGTGTC TGTCAGGGTA TAACTGGGAG CTAGAAATTG
 133501 CACTGAAATT GAACAAAGAA TTTTATGGGA ATAGTAATGA CAGAAAGCAA CTACCACCTC
 133561 AAATGGAAAA GTGGAACAAA CGTATCAGAG ATAGTAATGA CAGAAAGCAA CTACCACCTC
 133621 CAGGTTTAGG AGAACAAGGA AAAGATTCTT TGAAGAGATC CCCAGAACTG GGACCTCTGA
 133681 GGAGTGTATG CTGGACCACT GATGATGATA TGTCTGTAGA TAGAGGCATG ATGAGGCTGA
 133741 TTTTAGGAGC ATGGAAGATC TCCAACTGA AGCCAACTGC TGTACTGGA TTCAACTGCC
 133801 ACTGCCAGGT TGAAGAACCC ATTCTGTGAG GATGTCAACA AACAAAGTGG GAAATCTTTT
 133861 CACATCCTTC CAGCCCTCTA GTCTTCTCC AGTGCTTTCT ATTGGTAGGG TTTGGGGAGG
 133921 TGGCTAGCAA AGCGGTATTG GAAAGATAG AAGAGACTAA ATCTTCATAA CCAGCACAGG
 133981 GTGACACTGG ATCACTACTG TTGCTGATCT TGGGCTGCCT CATATCCCCT GTTCTTCCCA
 134041 TTAGCCCTGT CACAACCTTG TAGATATCCC TTCATTATAT GCCCTTCATA TATCTTTTG
 134101 GTTTAACTTT TTCTGTTGGA ATCCTAATAT GGCACTCCTC CATTTTTCAG GACCAAAAGA
 134161 GTATAAAAGA TTATCTTTTA CCAAAAAA GACAAAAAAC TGATCTAATT CCTGATTTGA
 134221 TCATTACACA ATCTATACAT GTATCAAAAT ATCACATAGT ACCCCATAAA TATATACAAC
 134281 TGTGTCCATT AAAAATAAAA ATTAAGAAA AGATGGTAAA TATAGCTCTG TCAGGCAGTG
 134341 GAGGTTTTAC CACGATGGCT GTTATTTCCC CCATGAAGGG GGGAGTGAGG GAGCAGCTGA
 134401 AAGTAGGTGC TTATAGGGGT ATAGAGGGGC TCAAAGCTTT GAGAGAGGAG AATGTCTGAA
 134461 AGAGCTGCCA AATAGCATGC AGGTCCCAGT GGGGCAGAGC CTCTGCTCAT TCACCAGTGC
 134521 CTCTTCAATA TCTACACTTA AGCCCTAACAC AAAGTGTGTG CTTAATAAGT ATTTGCTGAG
 134581 TATGTAAAGT GGAACAGAA CCAATCTGGC AAACCTTGTA GGACTGGTGG GCAATGAAGA
 134641 TCAGTCAGGT AAAATCTGTG GATATAAATT TATATTGATC AAAAAATTCA AGGTTAGGTG
 134701 TTTTCTTCA GTCATGCTCA ACGATGCTTC AGCCATGCTC AACTCTTCTG TAGCCACAGA
 134761 AAAAGTTTA CCCATAATCG AGCTGTGTCT GTGTCTGAAT AATGAAAAGA CCATGATGCA
 134821 AGGGAGTTGG AGACACAGAA ACAGTGTGTTG AAGTAATGGG TAATGGAAGC ATGCTACCAG
 134881 GGAAGGAAA GAAGTGGA TAGGAAGGAA CAGAGATCTG TGGTCTATG TCCCCTGAGC
 134941 ATATTACAT GTTAAAGCTA ATTCAGTTT CAATCATCAT TAAATTTTG TTCCTAAATA
 135001 TATGGCCATT ATTTTCCACA ACCACACTAA AACTTTATTA CCTCTGGCAA GTGACTATGC
 135061 AAGTAACTAA GAGCAAAAAT ATCCACAAC ACCATTGAG CTATCAATTT AGGGAAGTC
 135121 ATCTGGCTAT AATCTAAGTG ACCCTCACT GAATGTCAAGT ATCTTTGCAT ATGTGATTTA
 135181 AATCTGGGCC TTCGCAACAC CATGAACGT TCTTGTCTTG AATATCCAGA TTGAAGGAAA
 135241 TAATCTGAGT AGTTACGAGT CCTGAAGCTA GAAAGATGGA AACCCCATTT GCTCATCAGA
 135301 AAGCCTTAGA GCTTGGGCGC TGGCGGGTCC TGTCTCACC GACAGAGGG GCTCTTTCCT
 135361 CCCCATCTGA TAGTCTGATA ACTAGAGAAG CCGGCCAACT TATTCTCCAA GAAGGAGCCA
 135421 TCTTAGTTCC TCCTGAAATG TTCATATTTA GAAATTATG TTTGTCAGTA ATTTAACCCC
 135481 TTAATGGGCT TGCCTTGTGG TCCATACCAC TGAGTGCAGA GCTTGCCTGG AAGAATTGTG
 135541 AGGGCCATTC CATCTTCCAG GCAGTAGAGT TCAGTACTTC TTTAAAATTG CTGCTGAAC
 135601 CTGTATTTGA AAAGAAAGAA TCATTTGGGT GTGGTAGCTC ACACCTGTAA TCCTAGCGCT
 135661 TTGGGAGGCT GAGGTGGGAG GATCATTGTA TGCCAGGAGG ACCACTTGAG ACCACCCTGG
 135721 GTAACATAGC AAGACCCTGT CTTTAGAAAA AAAAAATACA ATAAATAAAA TACAATAAAA
 135781 ATAAAGCAA AAAGAAAGAG TCCATCTTAG GGACAGACTG TAACTACTCA CTGGAGCTTA
 135841 CCTTTACATA GTTCAGGATC AATTATAATA AAACACTTTT GTGCAGATTC AATAGGATTA
 135901 TTTTAATCCC CATCATCTCT CTGAGTTTCC AGTCAGTTTC TCTGCATGTA GACACCCTTC
 135961 TCCAGCCCAC CATTGTCTCT CCTCCTATAG CTCCACCAAC AAATCAGAAC TTTTCTAAC
 136021 TGCACCTAGT GCACCTAGAG TCTACTCCAG AATGCTCATG GAGAAAGTTT CTGAAAGGTA

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136081 AAACCTCTGAA TGATATTTGT AGCTAAAGGG AGACTTGCTA GAGACAATAA GCTAATAGTT
136141 GTAGACTTCA GTAGAAGAGG AATGACACTG CAATGTCAGG GTGCAGGACT TCAAGAGGGC
136201 AGAGTATGGA AACCCAATGG GAAAAATGCT CACCAGGAAC ATGAAGAGAA GGAATTACGT
136261 GTAAGGATTT CTCAATGTGT TCCCAAATTT GCCCAGCAGA GGGAGGCCTC GGGTTGATGG
136321 CAGGCTGACC ACACAATTAA AGAAGGCTGA ACCTGGGGGC TTTTAACAAC CATCGTGGGC
136381 TCTACTGTAA GCATTTAGAA AAAGAAAGTT ATCCATTCOA AAATATATAT ATTTTAAAC
136441 TTCAGAACAA AATTATGAAG AGCTATATTT ACTTTTCTAC ATTCTAATTT TTATAAATCT
136501 GAGTATATTT TGCATATATT GTTATAGTAC ATATTCAATT TTGTATTTTG CTGTTTTTAC
136561 TTAACCATTT TTAGTAGATT ACTCTGTGTT CATAATAATC ACTTTTTTAA AACTTTTTATT
136621 TTTATTTTATT TATTTTTTTT TTGAGTCAGA GTCACACTCT GTCGCCCAGG CTGGAGTGCA
136681 GTGGCGTGAT CTTGGCTTAC TGCAACTTCC ACCTCCTGGA TTCAAGCAGT TCTCCTGCCT
136741 TAGCCTCCTG AGCAGCTGGG ATTACAGGTG TGCACCACCA AGCCCGGCTA ATTTTTGTAT
136801 TTTTAGTAAA GACGGGGTTT CACCATGTTG GTCAGGCTGG TCTCCAACCTC CTGACCTCAT
136861 GATCTGCCCA CCTTGGCCTC CCAAAGTGCT GGGATAATCA CTTTTTATGC TGCATAATTC
136921 TTCAGATTGG TCAGTACGAC TGTATTTACA CTCATTGTGT TTATTAGAAA GAATTCCAGA
136981 ATATTTTGGC TGCCCTAATT AATTTTACAA TTAATATGAT TTTGAAATTG GGTATTGGCT
137041 CCTTCTGAAT TGGTTTTATTA AAATATATTC TAATGTAATT TATGACATTT TCATCATATT
137101 AGCATATTTA TTCTGTTAGA ATTTTCATAAT TTATAAGCT ACAAACTGTA TGTGATATAG
137161 CTTGTAACCT TATCTCATAA CTTTATGTCAG TTACAAGTAG AAATAAAATG TTCCCTCAA
137221 GATTGCTTAA AATTTTATTA TAAACAAGTG TAAAAACAA AATCACTAAA AACTCCCTC
137281 TTTTTTCCCC CAAAATGCAT GTTTCCATTT TAACAGAACC CGTATTTAAT CAGCAGATTT
137341 CTATGGTGGC TAGATTTGTA GACTAAATAT TAAAAGTCCC AAAGCAAATG CATTTTTCTC
137401 TTAAATTTTA CTGACTTTTT TTTTTTTTCT TTTTCTGAGA CGGAGTCTTG CTCTGTGCGC
137461 CAGGCTGGAA TGCAGTGGCA CAATCTCGGC TCACTGCAAC CTCCGCCTCC CGGATTCACG
137521 CCATTCTCCT GCCTCAACCT CCCGAGTAGC TGGGACCACA GGCGCCCGCC ACCACGCCCA
137581 GCTAATTTTT TGTATTTTTA GTAGAGACAG GGTTCACCG TGTAGCCGG GATGGTCTCG
137641 ATCTCCTGAC CTCATGATCT GCCCACCTCA GCCTCCCAA GTGCTAGGAT CACAGGATG
137701 AGCCACCGCG CCCCGCCTAC TGACTTTTAT CCAAAGAAAA TATAAGAGCT CTTTCATCATA
137761 ACGTACTGTT CTTGCTCTTG TTATTAATA TGACACATTT AGACTTAAAC TGATTTGAAG
137821 GTTTATGACA TTGTTTAAAGT TATTACATAA TTAATTCATA AAGATAATGA CTAGTTTGAA
137881 CTACTGACAG CTCACACATC ATCAGTTGAA CAGCAGAAAG CTTATTAAGC TACTTTCTTA
137941 TGTTTCTGTC TCCCAGCTAC TAAAAGAAAC GAAACCCTTC CAGGTGTTAA GGCAAAACCT
138001 TCCTCCCCCT TTCTTCTATA AATCTGATTC CATGTTAGTG AAATTTCTAC TGATGGCTTT
138061 GGTTCCTCT ATAGTAGAAT AGAGATCCTA TGGCAAAAGT CATGTCTGAC ATGGTAGCAA
138121 ATAGAAATGG GGAAGAGGAA GGTCTGCAAG AGCCAATGTG GGAATGGGG AGAGGACTGA
138181 CTACAAAAAC CCAGCAGGAA TTCCAGAGCA AAACCTCTCA GGACGGGCAC ATTGGCTCAT
138241 GCCTGTAATC CCAGTACTTT GGGAGGCCGA GGTGGGCAGA TCACTTGAGT CCAGGAGTTT
138301 GAGACCAGCC TGGTCAACAT GGGCAAAACCT CATCTCTACA AAAAATAAAA AAATTTGTCA
138361 GCGTGGTGG CATGCACCTG TAGTCCAGC TACTCAAGAG ACTTAAGTGG GAGAATCACT
138421 CGAGCCTTGG AGGTGGAGGT TGGTGAAGCC AGATCACGCC ACTGCATTCC AGCCTGGGCG
138481 ACAAAGTGAG ACGCCATCTC AATCAATCAG TCTCCTCGAA AAGCAACATT ATGGAGAGAC
138541 AGGATTCCGT CAAGGCCTGG GGCACACAGG AAAATATTAA GGCAGAAGAG AGTTTCCTCC
138601 CCACACCACA CCGTATCCCA CAGGCACTGC GGATGTGCAT ATGCAAGAGG GGTGATCCT
138661 AAGAATTTAG AGTCACAGAG GAGGAGGCAC CAAGCAGACT GTGGAGAAAG TCATGACCAG
138721 AAAGGGACAG AATGTAAAGC TTCAGCTGAT TATCTGGCCT CAGGGATTCC AGAGGAACTG
138781 GTCCCAATGG TCTCCTGGTG ATGTAGGTTT TTAGGTTTCT TTTACAGGGG TTTTCTGGGA
138841 GATCGTTGAC CCAGTTAGCA TTCAAGCAAC TTCCACCCTG CACTTTTATT CTTTCCCCTT
138901 CACCTGCTTA GGTTTTATCT GTCCAGGCAA TAATAATAAA ATTATTGAGC CCTGGACATG
138961 TACCTGTAAA GTCCTTAAA GATGATGCCT TCTAACTCCT CATTCAACAG ATACAAAAAC
139021 ATTACAATAA AATGACTCAT GCAAGACACC CAGGTAGTTT ATAGCAGCTA ATAAAAACAG
139081 AATAACTATA AAATATGGTA AGTTTATAAA AGTTACATTG AGTATACTTT ATAAGAACTG
139141 CTTATTGAGT TTGCCTAATA ACCACACAGC ACAATAATAA TATGTATATA TTTTAAATA
139201 TGTGTAAATA TGTGTAACAC AAACCTGTAG AAGGTATATC TGAGTACAAC CCTATTCTGT
139261 TTGGTTACCT TTTCTAGTTC ATTATGTAAG TGGCATAGCT ACCTAAGGAC TTATGCTTAT

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139321	AAATGTTACT	CAAAAAAATA	CAGAGGACAT	ATGTGGATAG	ATAATGGAAG	AGATAAGATA
139381	GGTAGGTTGA	AGGGTTGGGC	TGCCCCCTCCA	CACCTGTGGG	TGTTTCTCGT	TAGGTGGAAT
139441	GAGAGACTTG	GAAAAGAAAAG	AGACACAGAG	ACAAAGTATA	GAGAAAGAAA	AAAAGGGGTC
139501	CAGGGGACCG	GTGTTTCAGCA	TACGGAGGAT	CCCACCGGCC	TCTGAGTTCC	CTTAGTATTT
139561	ATTGATCATT	ATTGGGTGTT	TCTCGGAGAG	GGGGATGTGG	CAGGGTCAAA	GGATAATAGT
139621	GGAGAGAAGG	TCAGCAGGTA	AACACGTGAA	CAAAGGTCTC	TGCATCATAA	ACAAGGTAAA
139681	GAATTAAGTG	CTGTGCTTTA	GATATGCATA	CACATAAACA	TCTCAATGAC	TGGAAGAGCA
139741	GTATTGCTGC	CAGCATGTCC	CACCTCCAGC	CCTAAGGCAG	TTTTCCCCCTA	TCTCAGTAGA
139801	TGGAATATAC	AATCGGGTTT	TACACTGAGA	CATTCCATTG	CCCAGGGACG	AGCAGGAGAC
139861	AGATGCCCTC	CTCTTGCTCT	AACTGCAAAG	AGGCGTTCCT	TCCTCTTTTA	CTAATCCTCC
139921	TCAGCACAGA	CCCTTTACGG	GTGTGCGGCT	GGGGGACGGT	CAGGTCTTTT	CCTTCCCACG
139981	AGGCCACATT	TCAGACTATC	ACATGGGGAG	AAACCTTGGA	CAATACCTGG	CTTTCCTAGG
140041	CAGAGGTCCC	TGTGGCCTTC	CTCAGTGTTT	TGTGTCCCTG	AGTACTTGAG	ATTAGGGAGT
140101	GGAGATGACT	CTTAACGAGC	ATGCTGCCTT	CAAGCATTTT	TTTAACAAAG	CACATCTTGC
140161	ACAGCCCTTA	ATCCATTTAA	CCCTGAGTTG	ACACAGCATA	TGTCTCAGGG	AGCACAGGGT
140221	TGGGGCTAGG	GTTAGATTAA	CAGCATCTCA	AGGCAGAAGA	ATTTTTCTTA	GTACAGAACA
140281	AAATGGAGTC	TCCTATGTCT	ACTTCTTTCT	ACACAGACAC	AGTAACAATG	TGATCTCTCT
140341	CTCTTTTCCC	CACAGGAGGT	GATGGCCGGA	AGAACATGGC	AGAGGGCAAA	ACAAAACAGC
140401	ATTGGGAACA	AGCTCTGTTT	AAAAGGAGAC	TTGTGAACAG	CAAAGAGTAG	AAAGGGTTCT
140461	CTTACAACGT	AAGCCCATGG	AAGACAAATG	TGTACTGCGT	GAGTTTTAAG	GCAATTAGGAG
140521	TAGTGGGACC	TAGGGCACAC	CAGAGAGCAT	ATTAACCTCT	AAACTTTTAA	AAACATTATA
140581	TCTGCTGGAC	ACAGTGGCTC	ACACCTTAAT	CCTACAACCT	TGGGAGGCCG	AGGCGGGCGG
140641	GTGTAGCTTG	AGCCCAGGAG	TTTCGAGACCA	ACCTGGGCAA	CATGGCAAAA	TCCCGTCCCT
140701	ACAAAACAAA	CAAACAAAAA	ACAAAATTAG	CCAGGCACGG	TGATGCGTAC	CTGTGGTCCC
140761	AGCTACTCAG	AGGCTGAGGT	GGGAGGATCG	CTTGAGCCCC	GGGAGGTTAA	GGCTGCAGTG
140821	AGCCATGATA	ATGCCACTGC	ATCTCAGCCT	GGGCAACAGA	GGGAGAACCT	GTCTCAAAAC
140881	AAAAACAAAA	ACACACCATA	CCCAACCACA	ATGCATCTGT	CTTAAGTACC	AGTACCACAC
140941	CCCTCTACTC	ACTACTAAAT	AGGTGAGTTC	CCAATCCCTG	GTAGCAGGTT	TAAGCATGTT
141001	ATATTAAAGG	TCTTAGGCTA	GCTAGCTATT	CACTCATTAA	ACAAATACTT	ATTGTGCATC
141061	TACTATAAAC	TAAGTACTGT	GCTAGGTACA	AAAGCAAATA	ATCTAAGCTC	TATAAACTTT
141121	ACTTCTCTCA	TCAACAAAAT	GGAGATGTTT	TAGGCATCTA	CTCATCATTC	TGAGCTCCAT
141181	CTTTTGTTGAC	TGTAGTTGGC	AGAGCTTTTT	ATCAGTTTCT	CTAAATAGCT	CTACCAGTCC
141241	CTGGTGGATG	CTGGCATGCC	CAAAGGATCC	ATCCTGATGG	CCCTGTCTGC	TTACCTTACC
141301	TGCCTGCCTT	TGCAGCACCG	CTCTGCTCTT	CTGCAGGACT	TCCCTTATCC	TTTGGGGTCT
141361	TGCTGCTCTT	AGGCTGCTCT	GCTTGTTTTG	ATCTGCTTTG	CATCACATGT	ATGTAAAGGT
141421	CCTTTCCTTA	TTTACCCATG	ACCAAGGTAT	TATGAGATTC	TGGAATTTCC	CCAAACCACA
141481	TTGATTGCTG	GGAGAATAGA	AGAAGTGGAT	TACAAGTGGG	ACTTAGAAGG	GGAGTATTCC
141541	AGAAGACGTC	TCTGCAAATC	CATTTAGAGA	GACCTTTCTC	CAGTGGTGAC	TCAAAGATGC
141601	AGCTCCTTTC	ATCCTGTGGC	TTGGCCATCT	TCAGCACATG	GCTCCCAAGG	ATGTCCTCAG
141661	GATGGTCTCT	AATCCAAGGA	GCCTGAAGAG	AAAAAAAGGC	ATGGAGTATT	GTGAGTGGTA
141721	GGTGGTTATG	GACCAGTTAT	GGAAGAATAC	ACATCACTTT	TGCCCACCTT	CTACTAACCA
141781	GAACTCACAC	AGCCATAGAC	ACTGACAAGT	AGGACTTAAC	AAGAATCTAA	TTTGTAGTCT
141841	AGGAATACGA	CTGTAGCAAA	TATTTAACAG	CTTCAAACAC	AGGTGCATTG	CTATCACTAT
141901	GCTTGGCCCA	GGCCTGTCTC	CCTTTCCTGC	CATGTACACG	GGGCCAGCAT	TTATGTCTAG
141961	ATTGGGTTGG	TTGGGATATT	AAGACAATAA	TGAACCAATA	CAACATCTTG	AGCATAAAAC
142021	CAACTGATAC	AATGATGTAC	AAGTCAGATG	ATTCTGATGA	TTATGAATTA	TGTCAATAAA
142081	AGAAATGTGA	TAACAAAGGT	AATTTTGTG	TTGGCAAATT	TTTGTGTTG	CATGACAGGA
142141	TGAAATCCTG	TCATTTGTAG	CAACATGGAT	GGAATTGCAG	GATACTACAT	TAAGTGAAAT
142201	AAGCCAGAAA	CAGAAAGTTA	AACACCACAT	GTTCTCACTT	ATATGCAGAA	GCTAGCTAAC
142261	TAAGTAAATA	AGTTTATCTC	ATTGAAGTAA	AAAGTACAAC	AGAGATTACT	AGAGGCTGGG
142321	AATGGTAGGG	GAAAGAGATG	ATAAAGAGAG	ATTCATTAAA	ATAAGTTACA	GCTAGATAAG
142381	AGCAATCAGT	TCTAGTGTTT	TATTTGTAAT	ACAGAATGGC	AATAGTTAAC	AGTAATAAAT
142441	AATTTCAAAG	AGCTAGAAAA	GAGGACATTG	AATGTTTCCA	ACACAAAGAA	ATGAGAAATG
142501	CTTGAAATAA	TGGATATTCT	AATTAATTAC	CCTGATCTGA	TCACTATACA	CAGTATGTAT

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142561 AAAAATAACA CTATGGGCTG GCGCGAGTGG CTCACACCTG TAATCCCAGC ACTTTGGGAG
142621 GCCAAGGTAA GCAGATCACT TGAGGTCAGG AGTTAGAGAC CAGTCTGGCC AACATAGTGA
142681 AACTCCATCC CTAATAAAAA TACAAAAATC AGCCAGGCGT GGTGGCATGT GCCTGTAATC
142741 CCAGCTACTC AGGAGGCTGA GGCAAGAGAA TTGCTTGAAC CCAGGAGGCG GAGGTTGCAG
142801 TGAGCCGAAA TCGCGCCACT GCACTCCAGC CTGGGTAACA GAGCAAGGCT CTGTTTCAAA
142861 AATAAATAAA TACATAAATA AATATTTTTT AAAAAAGAA CATCACTATG CACCCCATAT
142921 ATACATATAA TTATTATGTC AATTTGAAAC ATAATTTTGA AAAATGAAAA AATGAAACAC
142981 AAATATGAAT CAATCCTCTC CAAGTTGATA TACTTAAAAG GAAAAAGTC CGAGGGCTTA
143041 AACTATTCAA TCAAAATTTT ATTAATAATG TATAGTAATC TGGAAAGTAT TTCAGAATGA
143101 ATTGGTATAA GGTTAGACAC AAAGATCAGT GAAACAAAAT AGAGAACCCA GAAATAGATT
143161 CACACATCTA TGGACAACCT GTTTTGACAA AGGTGTCAAG GCTATTTAAT AAGTAAAAAA
143221 ATCGTCTTTT CAGTAAATGT TTCTTGAACA AGTAGACATC CGGTGTGGGG GAGAGGAGCA
143281 GGAGCCTTAC CTCAAACCTT ATGCAAAAAT TAACTCAAAA TAGACCATAG ACTTAAATGT
143341 AAAAGCTAAA ATTATAAAAC TTCTTTAAAA AATAGGAGAA AATCATCAAC ACCCTAGGAT
143401 TAGCAAAGAT TTCTTTAAAA CAAAACAACA GGTTTATAGT TTATAAACA TAAATAACAA
143461 AATGATAAAT TTCATCAAAA GTGAAAATTT GCTTTTCAAA AAACATTATA AAATGAAAAAG
143521 CAGGAGGCTG AGGCATGAGA ATCACTGGAA CCGGGGAGCT ACAGGTTGCA GTGAGCCAAAG
143581 ATGGTGCCAC TGCACTCCAG CCTGGGTGAC AAAGTGAGAC TCTTCCTAAA AAATAAATAA
143641 ATAAATAAAT AAATAGAAAA GAAAAAGAAA AATCACAGGC TGAGAGAAAA TATTTATAAT
143701 ACATGTATCT GACAAAGGAC TCGCACCTGG AAAATATAAG GAACCTTATA ACTTAGTAAG
143761 ATGACAAGCC AAAACAAGA GTAAAAGTTT TCAACAGACA TTTCACAAAA GAAACATAC
143821 AAATGGCCAG TATGCACATG AAAAGATTTT AAACATCATT AGTTACTAGG GAAATGCAAG
143881 TCAAAACCAC AATGAGATAC TTCACATTCA ACAGAATAGC TAATGTTAAA AGGACTGACA
143941 ATCCCCAGGG TGAGCAAGGG TGTGGAGGAA ACTACTCTCA TATATTGTGA ATGTAAGAGG
144001 CATTTTATGA TATAACTGAA TTCAGTTTAA TGTATAACTG AATTACGGAT ATGAGAATCT
144061 CAAATGAGGA CGAATGGTTT TTACGCACAA AACATGAGAC ACAAACTGTG AAGAAATATA
144121 AAGTCGTGAC CACGTCTTTT CAGAATTTTA ACCTGTTTGC TGAAGTACGT CAGTAACAAT
144181 GGCAGGGAAG GGGTATCTTA AATTTACCA CAGCCTCAAA GAGGCCATTT CGTGGATCCG
144241 CTGAGGCTTG GAGTCGGCCT TCTGACCACG AGTCCTGCGG CTATGAAAGA GGAAGCCGCG
144301 GTTCAGGGCG TCCTCGCGAG TCGCGCAGCC CGCCCTGCTC CAGCTGGGGA CACAGGTGGT
144361 CACGGCGCTT TCCAGCTGCA GATCCAGGCG GCAGCCCAAG ATTTGGTCCA GCCGCCAAGG
144421 GGTGGCTCGA GTGACTGACG GGCTTGAAC GCTCCAGGA CCCACATCTG GAGAGGGAGG
144481 TGGGGGTGGG GTGCTGAAGT CATTTCTGGG GCCCTGGGG GCGGGCATGG ACCTGGGTAA
144541 GGCCAGAGAA ATTGACACCT CGTGACATCC CTGGAAGAGA AGTACGTTCA GTGTCACTCC
144601 AGAGCTGAAA GATACCGCCT TCTGGCTGGT CCTCTCTCAC CTACATACTT TTCTAAATTTG
144661 TCTGGAGCAG GCCGGGCATC TGTATTATCT GGTATTATA ATATCTGGTT ATTTAAAGC
144721 TCTCCATTAA ATTCACATAC ACGAAATAA AAATTAATAA AAATTTTAAA AAAAAGAAAC
144781 AAAAGCTCTC TAATGACCAA GTCCTACACG ATAGTGAATA AATTTTTTTG TGTGGTCCCT
144841 AAAATTGAGT TCATGCCCTT TCTGAAGTAA TAGACGCCCC GAGAAAGGAT CGACTTACCC
144901 ATCATGCCAC AGAGATTAAT TGGCCCCAGA ATTCTTTAGC AGACCGTGTA TATGAACGTC
144961 CTTTGCAATC ATATAAATTA ACTGGGAAAA CCTCATTTAG TATGTTACAT GCCTAGCGTT
145121 TTGTGCTGTA ACACCTTACA AGAACAGGG ACTATTGCC CAATATTATA TTTCAAGAAA
145181 GGAAGGCCCA GACAAATGGT GTCAGTGGT CACTTTCACC CAGTTGGTAA ATGAAACCAG
145241 AAATTATAGC TGTACCACAG AAAGGTGAAA ACGTTTCTTT TATAATTTCA CATAAATCT
145301 TTAATGGACC CAGTGTCCAA CACATTAAAG CAAGTGCTCA GGAGTGACAT CAAGATGTAA
145361 AAAATAGTCC TGTCTCAGG GAGTTTAGGT CTTGGAGAAA AGAGACCCAA GGAGACACAA
145421 GACAAAGGGG AAAGAGAAGG AGCGCTGAAG ACTGAGGACC CTGCCTGTGG ACTGAAGTGA
145481 GGATGGGGAC ACCCGATGCC CGGAATATGA CAGTTTGGAG GGGCCTGAAG GACTCTTCTA
145541 TTCTCTATCA GAAAAACAGA ATTACTCTCC TAACCAGAAA AGGTATTTC AATTATATTT
145601 TCCATCACAG CACTTTTCTG GTGATAATTT AATGTGTTTT AAAAAATGTA TCACAGTGT
145661 GGCCTGGTGT GAAATAAATA ATAAATTTT AAGAATTAAA AAATATAAAA ATCTTTTATA
145721 TAGACATTAG GAGTTACAAG GATACTGTG AATTATAATT AGTAATTAAA TTGAAATACT
145781 GATTATTTTC ATTTTATTTT AATTATTTAA TAAACCTTAT TTAACATTTA ATATTTATCA
145841 GTAATTAAAT CTAATTGTTA ATATTTATTA TTATAAATTA TTTTAGAATT AAAAATAAGT

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145901 GTAGAAGCGA GGCATGGTGG CTCAAGCCTG TAATCCCAAC ACTTTGGGAG GCTAAGGTGG
145961 GAGGATTGCT TGAGCCAGT AGTTCAGAC CAGCCTGGGC AACATGGAGA AACCTGTCT
146021 CAATACAAA AAATGAGCCA TGTGTGGTGG TGCGTGCTG TATCCCAGC CATTCTGGAG
146081 GCTGAGGTGG GAGGATGACT TGAGCCTAGG CAGTCAAGGC TGCAGTGAGC CCTGATCTTG
146141 CCACTGCACT CCAGTCTGGG CAACAGAGCA AGACCCTGTG TCAATATACA TATGGACAAA
146201 CTTAAAATTT AAAATGAAAG CATACTACTG ATACAGAATT GAGTAGAGAT GCAAAGCTAG
146261 TCCTATAACC AGAACAATAA AGATAAAAAG GAGAGTGGAA GAAGGTATGT CATGAATTT
146321 ATGATAAATG GCAATTGCAA ATATCCTGTA GCAGAACAAA ACAACAAAAT TGTAGATAAA
146381 ACATATCCAA CCCTTTGGAA GGCCAAGGAG GGAGGATTGT TTGAGCCCAG AAGTTGGAGA
146441 CCAGCCTGGG CAACATAGTG AGACCCTGTA TCTAAAAGG AAGAAAGAAA AAAAAAAAAA
146501 AGGATGATAA AGTAGACAAT ATTGAAAGCC ATTTTCTGCA AATACATAGT GAATTTGATC
146561 AGTAATTTTC TTCCAACAGT GCAAAAATGA ATAGATATTA GTTGCCTGAA ATAAAAATCA
146621 AATATCCAAC AAAAAATATT GACTATCTAA TAGTATCTAA GCTAGTAAAT TTGGCCAGTT
146681 ATAAAATGTC TTAATTTTTT ATTTAAAAA AGAAAACCAT ATTTATAAGA AGAGGTGATA
146741 AAGAGAAATT ATTTTCAGTTA TGAAGATTTT GTTAGAAAAC TATGAGAAA AAACATTTTT
146801 TTGTTTTCAA AAAGTGAAAG ATTAAGTTAC CAAACAGTTG CTAAAGAATA CCAGATGGCT
146861 GAGCGTGGTG ACTTATGCCT GTAATCCCAG TACTTTGGAA GGCCAAGGCA GGAGGATCAT
146921 TTTAGGCCCTG GAGTTCGAGA CCAGCCTGGG CACTGTAGCA AGACCCGTCT CTATTAAAAA
146981 AAAAAAAAAA AAAAAAAAAA AATACCAGAC CTTGCTAACA ATAGCAAAGA TCAATTAATT
147041 AAAAATTTGA AAAACTGTAA TTTATTTAGC TTTAGAGTAC TCTCGTGATA TGAGATTGCC
147101 AAATTAATAC TTTGGGTGCA TTTCTTTTCT CAAAGGACTT GCAAATTTAC AAAGAAGTGT
147161 TGAAGAAAAG CCACACATTG GCAGGTAATG TTTGCAAAAG ACAGATCTGA TGAAGAACAA
147221 TATTTTTAGA ATATACAAAG AATACTTAAA ACTCAACAGT AAGAAAATAA CCTGATTTAA
147281 AGCAGGCCAA TGACCTGAAC ATCTGTTTAC CAAAGAAGAT ACACAGATGC AAGTATGCAT
147341 ATGAAAAGAT GCTTGACATC ATGTCATTAG GGAACCTGCA ATTAACAACA GTAGATACCA
147401 CTGCATACCT AGTAGAATGA CCAAAATTTA GAACACTGTC AGCAACAAAG GTTGCAAGA
147461 TATGTAGCAA TAGTAACCTG TTCATTACTG TACAAAAGTA ACCATACTTT TACCATAAGA TTCACCAATC
147521 AAGACAGTTT GGTGGTTTCT TACAAAAGTA ACCATACTTT TACCATAAGA TTCACCAATC
147581 ACACCTCCTTA GTATTTATCC AAAGGAATTG AAAACTTATC TCCACACAAA AACCTGCACA
147641 TAGATGTTTA TAGCAGCTTT ATTCATAATT TATCCAAAAC TTGGAACAA GATGTCTTTC
147701 AGTAGGTAAG TGGATACTG TGGTACTTCT GAATAATGGA ATGTTATTTA GAGTTAAAAA
147761 GAAATGCATT CACTTTGGGA GGCGGAAGTG GGTGGATTGC TTGAGGCCAG GAGTTTGAGA
147821 CCAGCCTGGT CAACATGGGA AAACCCCAAT TAGCCGGGCA TAGTGGCGTG AGCCTGTAAT
147881 CCCAGCTACT CGGGAGGCTG AGATATGAGA ATCGTTTGAA CCTGGGAGAT GGAGGTGCA
147941 GTGAGCCAGT GCCACTGCAC TTCAGCCTGG GCAACAGAGC AAGACTCCTC TGTCTCAAAA
148001 AAAAAAAAAA AAAAAAAAAA AAAAAAGAA AGAAAAGAAA AAAGAAAAAG AAAAAAGAAA
148061 GAAACGATCA AGCCATGAAA ACACATGAAG GAAACTTAAA TGTATGTTAC TAAAAAGCCA
148121 ACCTGAAAAG ACTGCATACT ATATGACTCC AACTGATGCA GGGCAAGCAA GCCAAAAATT
148181 AGGGCTTAGC CCGGGAAGAA TTCAAGGGTG AAGTGGTGGT GTTAGCAACT TTTACTGAAG
148241 CAGCAGTGTA CAACAGCAGA ACAGGTACTG CTCCTTGCTG AGCAGGGCTA ACCCATAAGT
148301 AATGTGCCCC GAGTAGCAGC TCAGGGGCAG TTCTGCAGTA ATATACCTGC TTTTAGTTAA
148361 GTGCATGTTA AGGGGGATTA TGCAGAAATT TCTAGAAAAA GAGTGGTAAC TTCGGAGTAG
148421 GTACAGAGGA AAGAAGTCGA TAATGTCCTG TTGTTGCCAT GGCAACGAAA AACTGACATG
148481 GCGCTGGTGG GCGTGTCTTA TGGAGAGGTG CTTTAACTC GTCCCTGTTT CGGCTAGTCT
148541 TCAATCTGGT CCGGAGTAAA GTCCCTGCCT CCGGAGTTCA CTCCTGCTTC CTGCTTCACA
148601 ACTGTATGAC ACTCTAGAAA AGACAGTAAC TATGGACACA GTCAAAAGAT TAGTTGATAG
148661 AAATTGGGTG ACAGGAAGTG TTGAAAAGGC AGAACACAGG ATTTTTAGGG CAGTGAAACT
148721 TCTGTGATAC TATAATGGTG AATACATGAC ATTATACATT TGTCAAAACC CATAGAAAGC
148781 ACAACACCAA GAATAAACCC TAATGTAAAT TACAGACTTT CGTTGATAAT GACGTGTCAA
148841 TGTAAGTTCA ATTGTAATAA ATGTACTACT GTGGTGCTGG ATGTCTATGG TGGGGGACAA
148901 TTTTTGCTTC AATAGTTACA GTTGAAGTAA ATGTTTGTGT TTCCCAAT GCATATGTAG
148961 AAACCTCTAC ATTCAATGTG ATGGTCTTTG GAGGTGGGCT CTTTGGGTGA TAGTTAGTT
149021 TAGTTGAGAT CCTAGCAGAT CGAGTCTTCA TGAATGGCAT GATGGGACTG GTCCCTTATA
149081 AGAAAAGACC AGAAAGCTAG CTCTCTCTTT GCCATGTGAA GACATAGCAG GAAGGTAGCC

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149141 ATCTGCAAGC TAGGAAAGGG CTTTCACAAA GAATCAACTC AGACCTCAGA ACAGTGAGAG
149201 ATAAATTGTC GTTGTTTAAG TCACTCAGGC TGTGGTATTT TGTTCAGCA GCCCAACCTA
149261 AGACTGTAA TTGGATTAGA AATTTCCTTT TGGGGATGGT GTGTGGCGGG GGGTGCAGGG
149321 AGTACCTTTG TTAAGCTTTT ATATCAATGA GTTGTAGGC TTTTCTTTT TGGTCATGA
149381 CTAGGACAGT TTAATAGTA TGAGTGTGAA GGAGATTGTT GGTCATCTAT TCGATGTCCC
149441 TTCTCTGTTT TTTAATATGA GAACTCCTGA TTTTCAGCCA ACTACCCTGG AAAAAAGCT
149501 AATCTTTCTG ACTTCTTAAG TGTGGCCATG TACTAAATTC TGGCTAATGC AAGGCAAGCC
149561 AAAGGTTTTA TGATAGGTTT TAGGACACTA GAGTAAAGA GAGCTGTTGC ACACATGCTC
149621 TTCACCCTAC TTTTGTGTCC TTTTTCCTT GGTAAATGAG GGGTGGCTGG AAGGAATCTG
149681 GGAACCTTAG TGGCTCTCTT GGATCCAGG CCTACAACCTT GGGTGTGAG TATGATGGCT
149741 TAGTTTCTG GAGTTTCCAT ACACAAACA GACCTGGATT TTCTGGGCTT CCCAGACTTC
149801 CACATCTAGA CTTGCTTTAA ATGGGAGAGA AATAAACTTG TTTTCAGCCAC TGTCATTTTG
149861 GGCTATTTTA TAGAATTA TCTAATCTTC AAGGGTACAT GAATTGCTTT TCCTTAAAAA
149921 AAAAAATCAGC CATAAAATCA TCTTCTTTT TCTTTTGTTC CCCACATTAT TTAGTTGGAG
149981 CTCTGTAACT TTTTTTTTTT TTTTTTTTGA GACAAGGTCT TGCTCTGTCA CTTAGGCTGG
150041 AATTCAGTGG CATGACCATG GCTCACTGCA GCCTTGCCCT CCTAGGCTCA AGCAATCCTC
150101 GTCTCAGCCT CCTGAGTAGC TGAAACTAAG GCACATGCCA CCATGCCCGC CTAATTTCTT
150161 TTCTTTTAGA GATGGGAGCC TTGCCAGGC TAGTCTCAA TACAGGTGTG AGCCACCATG CCTGGCTGCT
150221 TCCCATCTCA GCCTCCCAA GTGACAGGAT TACAGGTGTG AGCCACCATG CCTGGCTGCT
150281 CTGTAAGTGT CTGAATTTCA TTTGTATT ATCAGTCTGT TTAGATTTTC TTTCCCTTCT
150341 TGGGTCAGTT AGGCCATTGG TTTCTTTTAA AAGGTTTTCA AATTTATTTG CATCTAATTC
150401 TTCAAATTAC TCTCAAAT ATTCCAGTAT ATATTCTTT GTTCCTATTT TCTTCTGTAT
150461 TCTTTATTAA AATAGCTAAT GATTTATCTA GCAGGACTTA TATTCTTTCC ATAATTTCC
150521 TGCACCCCAA TTAATCTCCA ATTTTATATT TCTTCTGGCC TTCCTTATAG TTTCCACAGG
150581 TTTATTTTAT TCATTTTTTA AAACCTTTAT TTAATTGTTT ATTTTATTAT CATCTTTCT
150641 TATTCAGCAA TCTAAGTGCT TAGGGATATA GAATTTCTC TAAGCAGCAT ATGCTAGGCT
150701 TTAACAATGT TAGGGAGGCC TCCCCTTCT GGGGAAGACC ACACTTACAT TAACACAGGA
150761 CTGTGGGATG CCAAGAGGTA GAGAAGGCT TATGAATATC CAGATTACAT CTTCACTGAT
150821 CCTGCACAAA GGTGGGGTTC CTCGGTTACC CACTGGGTCC TATTACCCAA GTCTGGGTCA
150881 GCATACCGAG ACTACGGGTA TATAGAACA GTGCAACTGG CGATAATCCT TCTGTGGGG
150941 AGAAAAATCT TTTTTTCTA TTCATCTTAG GTTCTCCATC TGTGGCCCTA TCAAGTAGAC
151001 TAACAAAAGA CAGATTGACA AGACAGAAAC AAAGCATGTG CATTGTACAA ACACAGGGGA
151061 GTACTGAGAT GAATACTCAA AAGAGGATTT AGAAGTTGGG CTTATATAGC ATTTTAAGAA
151121 AAGAATACAT TTTTAAAGTG ACAAGGAAGA CGAAAAGGAC TTTGAGTTTC TAGTGCAGTA
151181 AATTGTGGGA AGGCAACTTT TCTTTCCCT TTTTTTTTTT TTTTTTTTAA AAAAAAAGAC
151241 TTCTCTGGTG CTATGTCCAG GCTGATAAGA GTCTAAAGTC TCTGGTGACT AACTTTGTGT
151301 CTTCCCCGAG TAAGAAGACA CTTTACAAT TTCATATCCT GCTTTTAGGC AAACAGGGAG
151361 AGGCAGAGG TGTGTGTTG TTTTAAATCT ATTTTTTTTC TCAATTGTCT TCAACTCAA
151421 ATACTTCTTA TGCCAAAGAT GGCATATTCT GCTACCCTTC ACTTACTACT TACAACCCAG
151481 CCTCTATCAT CATAATTAGA ACTTCTGACC CTGGGAACA TGGGCAATAG TTTGAACTCT
151541 TTTATATCTC CTTAGGCAG AGATGGAGGC CCAGCCATGC CTCTGACATC TAGACACAAC
151601 TGTGCTTCA TTTCTCCTAT TCTCAGAGGT GATGTTGTAG GACTTCAACA AATATCAGTA
151661 AACATTAATT TTTTTTTTCC TTGAGGCACA GCATGATCTT GGCTTACTGC AGCTGCTGCA
151721 GGCTCAAGCA ATTCTCCTGC CTTGGCCTCA CGAGTAGCTG GGTACAGGC CCTACCACC
151781 ATGCCCGGCT AATTTTGTG TTTTGTAGT AGACAGGGTT TCACCATGTT GGCCAGGCTG
151841 GTGTTGAACCT CTGACCTCA AGTGATCCAC CTGCCTCAGC CTCACATAGT TCTGGGATTA
151901 CAGGCGTGAG CCACCATGCC TGGCCATCAA TTTTATGTC AACTCTAAAT TATAACATT
151961 AGCAATTTTG TGACTTTTAA TGGTCATCAT TAATGTTGTT TATGTTTATG TGTAGTCTT
152021 GTCATTACTC ACTCGGGTAT GGTAAATTGG TCTTTTCAA AATGAAGTTA AGGTCTATT
152081 GCTCTTCTCT GAATCATAAT AAGAAGTCC AACAGCCATT TCAGCAATAA CTATTTACTG
152141 AGATTTTAAA ATATTTCAAG GTAATTGTC CTAGCAGACT GGAAAATACC AAATCTTTT
152201 CCAGAACTGA ATCCCCATC AAAGTTCAT TTTACTCATA ATTCCCTTTT CATTTGAAGC
152261 ATCTCATTGT AAGCCAGTCT TAACCCTTCT CTCACACTTT GCTTGGCTGT TTCTCAGGTA
152321 GAACTCAGTA AGTCTGGTAG CCTCCAGGAC TGCCGCTTAG ATTATTAAAC AACATGTCAG

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152381 TGGTTGGAAG AGTCAATGTT ATTTTGATTT TTCTGTTTGT TTTTGTTTTA AATGCAGTTG
152441 GCGGATAAATT GCAGCTTTCT TTCATTCCCT ACATGAGTTC AAATGGCAGC AAACAAACTA
152501 GGAGAACGCA GACCTTCTGA CTTGTGGGTA CCCCTACTCA TCACCTGAAG ACCCTTGGA
152561 ATCAAAGCCC TGACCCATTA AAGACGGATG GAGACAGCAA CATACGATCA TCACTATTAT
152621 CTTGCTTTGC CCCAGTCCAG GTTAACCATC TGTGGTATTT TTAGTTGCTA AGTCCATATA
152681 TTCAACATAA ATCAATTATA TATCCACTAA AATCTCAGCA CTAGTCTAAC TACTAAGGAA
152741 ATGACAGCGA AGAAAACAGA CCAAACGTCT GCCCTTATGG GATTTATATT ATTTTCTCTG
152801 TGCTGGTTAA ACCAAGGAGC TTCTGCTCTT TTCCTTAGTC ACCTGGGGGA GGCAGAAACA
152861 AAGGAGAATA TTGATAAACC TGGAAATAGG GCCGGAGAGT ATCAGAGAAG GAAGCCTTCG
152921 GGAAAGTAA GATGTGGCAG CCAGTATTCC CGTTATAAAA GGATACAACT CCGGCCTCAT
152981 AGTCCAGAAA AATTCCCACA AGCAGGGGCT GCTCATGCAG ATGAAGGGAA GTTGGGGGAG
153041 AAGTAAGTGC TACATAGCCT TTCTTTTTCG ACAGCCTGAG GGTCCAGAAT CCAGACTGAG
153101 GCTCTTGCTT CATGCCAGTG CCCCTCTGCA CATTTCCTCAT ACAAACCTCT AAATCCCATC
153161 CGGTTCTTTC GCCAACATCC ACTTCAAAGT AACGTCTTCC TGAGGTGAAG CCTTCACAAC
153221 CCAAGACACA GGGGAAGGCA GTAAATCTCC TGGAAGATGT GTCCTGATTC TCCTGGGTGT
153281 ATCCACGAGT CACTTGTCTC CGATCCTCAG AGAGAATTAG TTCGTGATGA GCTGTATCTG
153341 GATCCAGAGT CACACTAACT GCAAAACAAA ACAAACAAA CAAAAATAAT TTTGTTGCTG
153401 TGAAGAACAC AGGTATTTT ATTTTATTTT ATTTTGAGAT GGAGTGTTCG TGTCACCCAG
153461 GAGGAGTGC ACTGGCACTA TCTCAACTCA CTGCAACCTC CACCTCCTGG ATTCAGGCAA
153521 TTCTCCTGCC TCAGCCTCCG GAGTAAGTGC GACTACAGGT GCGCACCACC ACAAGTGGCT
153581 AATTTTTTTA AATTTTCTGT AGAGATGGGG TTTCGCCATG TTGGCCAGGC TGGTCTCAAA
153641 CTCCTGACCT GAAGTGTTC ACCCACCTCG GCCTCCCCAA GTGCTGGATT ACACAGGTGT
153701 GAGCCACCAT GCCCAGCCAC AAGTTATTTT CAATAAAACC AGCCTGTGTT CAAACCCAAC
153761 TATTGTTTCT TATAAACTGG GTGAGCTTAG GCAAATCATT TAACTTTCTG AGCCTCAGTT
153821 TGTTAACTAT AAAGTGGAAA TTACCGTATT TGTTGCAGAG AATGGTGGGT AGGATTGAAT
153881 AAGCTTATGT TTGCTTAATG CTTGGTAAAA TTCCTGGTAC ATGGTAACCA CCTAATAAGT
153941 GGTAGTTGTT GGGGTGATCA GGCCCAACAC CAGGCCGTGG GGGCTACAAA GTCCGGCGGG
154001 TCAAAAGGAA TGAGAAAAGA CAAGTTAAGA GTGCATAAAG TGGGTCCAGG GTGCCAGCAC
154061 TAGATTGGAG GCTGCAAAGG CCTTAAGCTC TGGGAGCCCA CACTATTTAT TGGTGATCAA
154121 ACAAAGAAGC AGGTGGTGAG GACGTGAGGG TAAACAGGTG AGGGCATGAG GACATGGGGG
154181 TAGAAAGGTA GTGGTGCATT AAGCGTAGCT GTGACAGTTT AGCATTTTCT TTGACACATG
154241 TAGAATATAC TCTGCTGCTT GAGATAGTAG AGGACACGTT TATGAGTGAA AAGCAAGGAA
154301 CCAACAAGTC TGTGCACTTT CCAGAGGCTA TGAGGGGTTT TATGCCCTGA GCCCTGGGTT
154361 CCATCCAAGC CACAAGGGGT TTTATGCCCT AGGCTTAGAT TTGTGGTGCG CGAGGGCAGC
154421 CTTCCACCAT TTGGCACAGA GCTTGGTGTT CCAAAGGCCA CGAGGGGTTT TGGACCCTGG
154481 ACCCCGGACA TCTTCCAAGA CTCTTTTACA TTATGACAGA CAAGCCAGTC CTGCTTCAGC
154541 TCTTCTAACA ACATGTAGTA ATAATGATAT CATCAACATC ATCTTCGTCT TAATTATTCA
154601 AGGATGCCAA GGTACAGAAC TAACCTGTTA ATATGGTTAC CATCCTGTCC AAAGTCTTTC
154661 TCCCATGCAG GACTTCCAGG AATCATGAGA CAGTTGAGCA GAAAGATACC TTTTCCCTTC
154721 TCTACTGAAT AACCACCAAC ATTGAGAATC AGAGAGGGAA AATGACTCAG CTAATGTCTT
154781 AGCTTGTTAT TGGAAGACCC AGGTCTCATG ACACATGCCT AGTCCCATGA CTTTTAATTG
154841 TAAGCTCTTC TCTTTCCCTT CAGATAATGT TCCATAAGCA TTAGTATGAG ATAATAATAC
154901 ACTGAGGACC AATATACATG AAAAATATCA GACTAGAATC AAACAAGACA GAAAAAAGAT
154961 CTGATAACCT AAAGTGAGAT ACTGAACAGT ATGCAGTTT AAAAATAAAA AATGGTAATA
155021 GGTCTGTGAC ACAAGAGAGT TAAGAAACCA CTGTGCTACT GAGTTAAATG TTGATCAGTT
155081 GGTCTGTGAC AATTAAGGAA TTCAAGTATT CAGAAACACT TCCTGTGCTG GATGCTCTCT
155141 GTTTGTTCTT CCAAATAATC CCTCACTTTT CCCTGTCTTG CTCTGTGCCC AGGAAGGCTG
155201 ACATGGACAG ATTAACCAGG CTTTCCGCCC TCTGGCTTGG TTCAGCCAAT GGAAGCACC
155261 AGAGGAGACC ATAGGGCACA AAGAAGCAGC CTTGGGAGTA TTCAGTACCC CAGTCCCACG
155321 CTATGATTTG GAGGGTCTGC ATTCTCTGC CTCTGGGCAC ACTCTAGTAT AGTTACAGCT
155381 CCCTACACCT GCCACTTGAG GCCCAGAGGA GGTGATGGCT CTCTAACTGT TCCTAGTTCT
155441 GGGTGCTTCC TGTTCTTGT GGATTTCCCA ACTCCTCACC TTTGTAAATA CCCTCCTTTT
155501 TCAAACCTA TTCAGTTAGC TTTTATCAGC CTGACTCACA GAAGTTTGGG GTTTCAATTC
155561 ATATTACCTG AATGACCCAG GAAAACCCAT GTTGAGAAAT TAAAATGTTT ACGGGGTGGT

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155621 AATACCACTT AAGAGAAAAA ATATCAATTG GATTTTAAAT ATTCCACCTA TCTATTGGTG
155681 TGACACATCA AAAAAACAT ATAGAAAGAT TGGAGCTAA AAGATAGATA ATATAGTCAT
155741 ATACTGTTAT AGTATTATAT CAAAAGATAT TAAGTCAGAG CATTATTAAG AATGGAAGAA
155801 GGGCCAGGTG TGGTGGCTCA TGCCTGTAAT CCCAGCACTT TGGGAGGCCA AGGCAGGCGG
155861 ATCACTTGAA GCCAGGAGTT CAAGACCAGC CTGCCCAACA TGGCAAAACC CTGGCTCTAC
155921 CAAAAATACA ACAATTAGCT GGGCATTGTG GCACATGCCT GTAATCCCAG CTACTTGGGA
155981 GGCTGAAGCA CAAGAATCAC TTGAACCGGG GAGGCAGAGG TTGCAGTGAG CTGAGATTTT
156041 GCCACTACAC TACAGCCTGG GTGACAGAGA GAGATTCTGT CTCAAAAAAA AAAAAAAGA
156101 AAGAATGAAA GGAGTCACCT AAAAAAGATA ACACAATTTT AAACATAAAT GTACTACATT
156161 ATTAGTGAAT TCATGTTTAG AATTGTGTTA ATATACAAAG CAAAAATTGT AGAATTATAG
156221 GAGAAATGGA CAAATCTACA ATCATCATGG GATGTTTTAA CATTCTCTTT TCCATAATTG
156281 ATAGATCAGG CAGACCAGAA GAAAGAAATA AGGGAAGATA CGGAAGGTCT GAACAATCTA
156341 AGAAGCGCAA TCTCATAGTC AATACATAAA GCTCAGCAAT TGTTTAATAA TAGTAAGCAG
156401 AGAATATGCA GTTTTCTCAG GTATAGATGG AACATGCACT AACTGAGTAA ATACTAGGCA
156461 GAAAACAGTC TGAACAAGTT TCAATAAAT TAATAAAAAG ATGACTAAAA AGATTCTAAA TATTAGGAAA
156521 AATAAAGAT TATAAACCAA TAATAAAAAG ATGACTAAAA AGATTCTAAA TATTAGGAAA
156581 TGTAAGTAC TAATAAGTCA TTAGAAGATG TATAGAATGG AACAATAATA AAATGTTATT
156641 TATAAAAATA TACAATGAAG CTAAAGCAGA ATTTTAAGGA AAATTTGTAG GCTTTAAATG
156701 CTTATCTTAG AAAAAATAAA AAGCTGAACA TTAATGAGCC AAGCATCTAA TTTAAATTTT
156761 AAAAAAGACA TAGAAAGCCA AATATAATTT TTTAAAAAGA AAAAATAGAT ATTAAACAAT
156821 ATAACAGTGA AGTTAAAGAA AACAAGAATG CAATAAAGAG GAAAAACAAA CAAAAAATAA
156881 AGTAGCTTCT TTTAAAGAA ATTTAATAAA ATAGACATAC CTCCAATGAG ATTTATCAAA
156941 GTAAGACAGA AGGCACAAAT GGAATGAATA CAGAACTTTT TAAATATTA CAGAACTTTA
157001 TAATAAATCT TATGCTACTA ATAAATTTGA AAGTACTGAT AAAATTATTA CTTCCTAGAA
157061 AAAATATTTT TGAGTAAAC TCATCAAAA AACAATAATA GCATGGGCAG ACCTAACATT
157121 AAAGAAATGA AATCACTACT TTAATTTTTA CCGACAGATA ATAAACGTG CATCTTTATC
157181 AAGCAAAAT GGAACCTGTC AGTTTTATAG GAAATTTAGA AGTCAAGGCA TGAGTAATGC
157241 CAATCTCATA CCAATCCTA CAAAGAATAG AAAATTATGG CTCCGCTTA TAGACATAGA
157301 TATAGAACTC CTGCACAAA TAATATAAAT AACAAACCAA ATTTATATT TGCAACTATA
157361 CATATTATAT GTGTATGTAT TATATATGTT AACATATACA TATATAATAT GTATAGCATA
157421 TGTTCTACAT ATTATATATG TATAGTGTAT GTATTTTACA ATATATAAAT GAAACCCAA
157481 TCTTTAATAT ATTCATCTAG ATTGTCATAT ATGACATATA TAATACATTA CATCAAAAAT
157541 GTGTACAATA ATCAGGCCAG GCACAGTGAC TCATGCCTGT AATCCCAGCA CGTTGGGAGG
157601 CTGAGGCGGG TCAATCACTT GAGTCCAAGA GTTTGAGACC AGCCTGGTCA ATATGGCCAA
157661 ATTCATCTC TACAAAAAAT ATGAAAAATT ATCCAGGCAT TGTGGTGCAC ACCAATAGTC
157721 CCAGCTACTC GGGAGCTGA GGTGAGAGGA TCCTTAAGC CTGGGAGGTG GAGATTGCAG
157781 TGAGTCGAGA TTGCGCCAGT GCACTCCAGC CTGGGTGGCA AAGGGAGACC CTGTCTCAAA
157841 AAAAAATTAA AAAATTAGCC AGGTATGGTG GCCTGTTCTT GTAGTCCAG CACTGGGGGA
157901 GGCTGAGGTG AGAAGATCAC TTTAGCTCAG GTGGTGGAGC CATGATCGCA CCACTGTACC
157961 ACTCGGCTTG GGCAACAGAG TGAGAGCCTG TCTCGAAAAA ACAAATATAT ACACACAGTA
158021 ATCAATATAT ATATTATATG TACCAATCAA TGCTTCACTT TTATATATAA TATAGATTAC
158081 ATCTTATTAG ATATATAGTA TTCCTTCTCC ATAGATAGAT AGATACAGAT ATAGACATAG
158141 TATCCTCTAT CCATATTAGA GAGAGGATAC TATATATATC TATAGCATAT AGAGATGCTG
158201 TCTCAAAAAA ATTTAAACAT CAGCCAGATG TGGTGGCCCA TGCCTGTAGT CCCAGCTACT
158261 GGGGAGGCTG AAATGAGAGG ATTGCCATTG ATCCTCTCAT TGGTTGAGCC ATAATCGCAC
158321 TACTGCACCA CTCAGCCTGG GAGACAGAGG GAGACCTGAG GTGGAAGGAT ATAGATATAG
158381 ATATATAAAT AAATATGTAT AGAGAGAATA TAATATATGT GTGTATGTGT ATATATATAT
158441 ATTATGAAGA CACTGGGAGA GAATACTATA TATATATGTG TGTGTGTATA TATATATTAT
158501 GAAGACACTG GTGGGATGGT TTCATTACCA ATTGGACCAA GAGTCCAGGT ATGGAGCCAA
158561 CATGCAATGT TGTGTTGAC TGAGCTGGCA GAGCACTGGT CATAGTTACG GGAAAGAAG
158621 GTCTCCAATG AGACATACTT AACAAAATAT ATGAACCTGC CATATACGTG GAGAGTTCTG
158681 GTGTGTATAT AGCCTTCTCT CACCAACCTA GCAATTGTCT TCATCATCAT TATAATGCTA
158741 TCAGAGCAAA GATGACAGCT AAATTTTTTT GTCCCTTTCT TCTTCTTTCT CTTCCTTCCC
158801 CTCCCCCACC TCTTCTCTT CCTCCTCTC CTTCATCTCT CTCTTTTTTT TTTTGGAGT

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158861	GGAGTCTTAC	TCTGTCGCTC	AAGCTGGAGT	GCAGTGGCAC	AATCTCAGCT	CACTGCAACC
158921	TCTGCCTTCT	GGGTTCAAGC	AATTCTGCCT	AAGCCTCCAG	AGTAGCTAGG	ACTGCAAGTG
158981	CACACCACCA	CACCTGGCTA	ATTTTTGTAT	TTTTAGTAGA	GATAGGGTTT	CACAATGCTG
159041	GCCAGGCTGG	TCTCAAATC	CTGCCCTCAA	GTGATCCTCC	TGCCTCGGCC	TCCCAATGTG
159101	CTGGGATTAC	AGGCGTAAGC	CACTGTACCC	GGCCTCCTCC	TTTAATAGAC	AGGGTCTAGC
159161	TCTGTTGCCC	AGGCTGGGTA	CAGTGGCGTG	ATCATAGCTT	ACTGCAGCCT	CGAACTCCTG
159221	GGCTCAGGAG	ATCCTCCTGC	CCTAGTCTCC	CCAGTAGCTG	GAACACAGG	CATAGCACAC
159281	GGGGCTAATA	AAATTAATTA	GGTGATAAAA	TTCAGTCCCC	ACTGATGACT	AAGCTCTTTG
159341	GACATAAAAG	ACACAGACCT	TGAAGGAAA	TGTGTCTACT	TAATTTTGAA	ACCCATTTTA
159401	TCAAAAAACA	GGATGAAAAT	GCAAAATGCC	ATCCACATGC	CAGAAGATAT	CAGCTATAAT
159461	AAGTTCCCAT	AAATCAATAA	GGAAAAGAAC	CCAATAAAAA	TTATTAAACC	ACAGTAAATC
159521	ATGGGTAAAT	CACAGAGGCC	TGAAGGGCTA	ATGGACATAC	AAAAAGAATC	TCAATCTCAC
159581	TAGTGAAATC	AGAAAAGCAC	AAATTAAGTA	CACAATTAGG	TACCATTTTA	AATCTGTAAG
159641	ACTGTCAAAA	TCATAAATTA	TATAAGTAAA	GACTCAGGGA	GTTTTGGAGG	AGTGAGAGCT
159701	CTTATATTGC	TTGTGGGGTA	GAATTGGAAC	AATTTCAAGA	TCTGTAGTAT	CTGGTAAAT
159761	TATGATATGC	ATCCCTCACA	CCAGCATGTC	ACTCCAAGGT	ATCTCCCTGG	AGGGAACATT
159821	TACGGGACAC	AAGGAAGCAT	GGATAAGAAT	GTTACAGTA	GTATTGTCTG	CAACAGCAAC
159881	AACAACAAAA	AAACCCAACT	ACACACAAC	TCAATGCCCA	GTCCACAAGG	CAATGGATTA
159941	AATAAACTTC	AGGCCGGAGA	TGGTGGTTCA	TGCCTGTAAT	CCCAACACTT	TAGAAGGCCG
160001	AGGCGAGAGG	ACTGCTTGAG	CCCAGGAGTT	CAAGACCAGC	CTGAACAAAA	TAAAGAGATA
160061	GTGTTTCTAC	AAAAAATTTT	TAAAAAATTA	GCCAGACGTG	GCAGTGCTTG	CCTGTGGTCC
160121	CAGCTACTGG	GGAAGCTGAC	GTGGGAGGAT	TGCTTAAGCC	CAGGAATTTA	AGGCTGCAGG
160181	GAGCCATGAT	GGGGCCATTG	CACTCCAGCC	TGGGTGACAG	AGTGAGACCC	TGTCTAAAAG
160241	AGATAAGTAA	ATAACAACCT	TGCATTTTCT	GCCACATTGC	AAAATGGTGA	GAGAGTGGTT
160301	TCTAGACTCT	AGACTCTTTC	TATGACTACC	TTCTAGTTAT	GAGATCCTAC	AACACTCACC
160361	TAACTCTCT	GTGTCATATT	TCCTCCTCTA	TAAAGCAAAA	ATGCCCCATA	TAGAGAGGAC
160421	TGTGATATAA	AACAAGAACC	AAGAAAAGTA	AAGCTTTTCT	AATCTGTCAC	CAGCTAAAAG
160481	GTGCTCAGTA	TATGTGAGTC	ATTATTCCTG	GTGCTGGTAG	GAGTGTATGT	TACAACCTTG
160541	AGTCAAGTAA	TATGGTACCA	TATATTAAGA	TTAACAACAA	CCTCGGCAAT	CCCAGTTTGG
160601	GGTATGTTCC	CAAAAGAAAT	GAAAGCACCA	GGATATAAGG	ATGCATGGAC	TAGAAAGTTA
160661	TTGTAGCAAC	ATTGTAATAA	CTAAGTTCTA	AAAACAGCCT	GAAGCTCCAT	CAGTAGGGAT
160721	ATGGTTACAT	ATATTTATTA	TATTCTTATG	GAATATTAGA	CATAAAAAGT	AACGAGTAAC
160781	ATAGAAGAGA	CAGTGTATAT	ATGTTACGTT	TGTACAAACT	TAGGGAAAGA	TATAGATCAC
160841	CCTACCTAGA	GAAGTCAGAT	TGGAGAGGGG	TGGGAAAAAC	CTTGAACCTT	CTCCTTATAT
160901	CCTTTATATT	GTTTGACTGA	TTAAAATGTA	TTTGTGTCAT	CTGCTTGAAG	GCAATGTAAA
160961	ATAAAATAAA	CATACATTTA	AAAATAAAAA	TAAAATTTAT	TCCTATCACT	TTTGTAAATA
161021	AGCTGGGCAC	AGTGACTAAC	ACTTGTAATC	CTAGCACTTT	GGGAGGCAGA	GACAGGCAGA
161081	TCACCTGAGG	TCAGGGGTTT	GAGACCAGCC	TGGCCAACAT	TGTGAAACCC	CATCTCTACT
161141	AAAAATACAA	AAATCAGCCA	GGCATAGTGG	TGCGTACCTG	TAATCCCACG	CTACCCGGGA
161201	GGCTGAGGCG	CTGGAACCCA	GGAGGCAGAG	GCTGCAGTGA	GCTGAGATTG	CGGCACTGCA
161261	AGCCAGCCTG	GGTAACAGCG	AGACTCCATC	TCAAAAAAAA	ATTTGAAAAA	AGAAAAATTT
161321	TAATAAACAG	TGTTTAAGAG	GGGAGAAATA	TTTAGTTAAA	AGATAAGCCC	ATTTAAGAAA
161381	TAGTTTCACT	TGACCCGGAA	GGCGGAGCTT	GCAGTGAGCC	GAGATCGCAC	CACTGCCTC
161441	CAGCCTGGGC	GACAGAGCGA	GACTCTGTCT	CAAAAAAAA	AAAAAAGAAA	GAAAGAAAGA
161501	AAGAAATAGT	TTCACCTGAA	CCATATTATG	ATTCCTTCTG	TAAAAGATGA	GAGTAGGCAA
161561	ATTGACTCAG	TGAAATCCCA	GCAAAACCTA	CACAAAGTCT	TGTTCTTCTT	TCCTGTCTAT
161621	TGTATAGGAT	GAAATACAGA	GTGCTTTTGG	GTTTGTGTTG	TGTTTGTGTT	TGTGTATTTG
161681	AGGGGAACAC	AGGTCTATAA	TTCTTTTCTT	GAAATCCCTG	GAACAAAATG	GGCTTTGCCA
161741	TTCAAATTAG	TTTAGAAGTT	ATAAAGGCAA	AAAAATGCAT	ATACTCTAAA	GTTCAACCCC
161801	ATCATGGCCT	AAGGCAGAGC	CCTGTAATCA	AATTCATCAA	TATATCTGCA	GCAAAACATT
161861	TATTCAAATT	AAGTGGGATA	AATAAAGACT	TTTAAATAGT	CTCATCTCAG	TGCCGTTTCAG
161921	GGTTGGCCAC	TGTGGAAGAC	AGACTCAAGG	GTGGCCTTCT	ATGATTCCTG	CCTCTTGGTG
161981	TTACACCCCT	CGTAAAAATC	CTTGTCTTTG	AGTGTGAGCA	GGGCTTATGA	ATTGCTTCTG
162041	ACCAATAGGA	TATGGCAAAG	ATGATGGGAT	ATAATTTCTA	TGATTACGTT	TCATTATGTA

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162101	AGACTCCATC	TTGCTGGCAG	ATTTTCTCTA	AAGAGTCTGT	CTCCTGAGCT	CTCTCTGAAG
162161	AAATAACTGG	CCATGTTAGA	AGCCCATGTG	CAAAGAGCTG	AGGGGTGGCC	TGTAGAAGCT
162221	GTGGGCAACC	TCCAGCCAAC	AGCCAGAAAT	AACCAGGGCC	AAAGTCCTGC	AACCATCAGG
162281	AAAGAAATTC	TGCCTGCTAT	CTCAGTGAGC	TTGGAAGTGG	ATTCTTCCTT	AGCCTAGCCT
162341	CCAGATAAGA	ACACAGCCTG	ACCAACACCT	TAACTGCAGC	CTTATCAGAC	CCTAAGCAGC
162401	AGGCCCCAAT	AAGCTGTGCC	CAGATTCTCTG	AACCACAAAA	ATTGAGATAA	CATATCAGTG
162361	TTGTATTAAG	GTTCTAAATT	ATGGTAATTT	GTTTGTACTA	ATAGATAACT	AATATAACCA
162421	CCAAATCATT	TCAGGTTAGG	CCAGATTTT	GTAGCCAAAT	GAATCATGAT	AAAACTTTCC
162481	ATTTTCAGGG	GTTTTTTTGA	TTTTGTACTT	ACGGATACAA	ATTTGTGAAA	GTATAGTCAG
162541	CACTGATTTA	AAAAATCAAG	GGAGCAGGAA	ACTCAGTAAA	TGGTTCTAAC	ATTTTGGAAAT
162601	CTGTAAATTG	GTTGTAACAT	TTGTCTCTG	TGTTATCTAA	GTCAAGTTCC	TAAAATATGT
162661	GAATGATAGG	TTATCATACT	CACCTACTTT	TCTTGCATTG	CTCTAAGAGT	TGGCTGAGCT
162721	ATTGATAATA	AACACTATGA	TCAGATCTAA	TACCATGATG	TGCTATTATG	ATCATGTGTC
162781	AGTCACAGGG	CTAAGCACTT	TGTACATGTT	GATGCATTTA	ATTTTGATGA	TAACCTCAATG
162841	AAGTAGGAGC	TGTTAATATT	TTCATTTTTC	AGAGGGGGAA	ACCAAGTCAC	TTGGAGTAAC
162901	ATGGCTAATA	AGTGAAAGAA	TAAGAAATTTG	AAAGGTTTGC	ACAGATAACC	AGAATGCAAT
162961	GCTCATCACA	TTCACTGAGC	AGTGAATCAT	ACTAAGTAGA	GAAAGTATGA	AAGCTCTACT
163021	GAAATTAAT	AAACAACCTC	TCTGGCTGTG	AGCCTGCCAA	GGGACAGGTG	GTAAACTTGG
163081	TTACTGCATA	AGGCCCTTC	TATCCACAGT	ATTCAGGAAT	TCTTTAGTGA	ACATACCTTG
163141	ATGACTCCTT	AACATTTTCT	TCACATCGAA	GTAAAGCTTG	GAAACATTGC	ACATAGTATG
163201	AAGTTCCAAG	GAGACAGCCT	CTGATGTTTC	CAGCTTCACA	GCCCAACTCC	TAGAATAAGC
163261	AGAGGCGAGA	GATTTCTTCA	GAGGTGCATT	CCATTCATTT	CTATATACGC	ACACCCCTCC
163321	CCTCCTGCAT	TCAAACAGGA	CTTACCTGCT	CAAAGTGTC	TTACATTCT	ATAAAGAAAC
163381	AAAAAGAAAA	GGTGAGCATG	GGAACATCGG	TATTTTCATG	GGCTTGTCAT	GCAGGGCTAT
163441	TCTTCTTTGC	TTTACCCGAA	GAAGTAAAGA	GAGTTACCCT	AGTCTTAGTC	TTAGATATTG
163501	ATGGATACTC	AAACAAAGTA	ATTCCCACCA	GTCTTAGGTA	TTGATGGATA	CCCAGATGGA
163561	ATAATTCCTA	CCAGCTTCTG	GGAGATTTCAG	CATGGCAGGA	TGTTTATCAA	CATTTGCATC
163621	TATTCTCATC	CTTGCTGAAG	TCTGAGGGCC	AGGAGCTTTG	TCCATGCTCC	CTCTGTAAGG
163681	ACTAGCTTTT	GGTGATCGGA	TTTCTTTCAC	AGTGAGCCCA	GATTAGAGAA	CACCTATCAT
163741	AAAGGTCCTT	AGTGGTGAAT	CTGTGCACAG	CCCTGAGACT	GGGCCACTGC	CACCTAAGATG
163801	GTGGTAGCAG	GTATCACACA	GTGGTAAAGC	AATCATGCTA	TACACTCAGC	CTTACAGTAT
163861	AGTCACCAAT	CCTGTTAGTT	AGAACCAGAA	TTAATGGCTC	CAGATGTTTA	TCTTCCTACA
163921	GATAAAGCTG	TAGATTGTAC	CATAACAGCT	CTGGAGCAAG	GGTTCTACAA	GCAAATCAGG
163981	GAAAAGGTTA	TCACTCATTT	TGGCTGCCCC	ACTTCATCAC	CCATCAGTCA	CCTAGTGGAG
164041	TATTTTCAGGA	GAGAGTCAAC	AACCAGGGTT	CTCTGCACAT	GGGCCAAGGA	GGCAAACAGT
164101	GGTAAATGTT	ATCCCGTGGT	TTCAATTGGC	CAAGCTGTGT	TCCCTCAGAA	GTTTATTTTT
164161	CTAATTGACA	TAAAGGTACC	CTATAAATTA	GTGAAGGCCA	GCCTGATGGC	ACTGATGTAC
164221	ATCTAAAAGA	AACATTACTT	TATCTTCCCA	TGCTTCTCTA	CCATTCTCCT	TTAATAGCAC
164281	TATAACATAC	CTTTTTTCCC	TACTCCAAGT	ACACAGCCTC	ACCTGCAGCA	ATTCTGGGGC
164341	TGAGCCCTGA	CATTTTTCTT	CCAGTTCCAG	GATGTGGCTC	TTGAGTTTCT	TGCTCTTCAG
164401	CCCCAGACCA	GCCTCATAGT	CCCTCAGTCT	ACTCAGAGTC	TGTTGTTCTT	CTTCTCCAG
164461	CCTCCAGAGA	TAAGACTTCT	CTTCTCATG	TAGGAAACAC	TGGAGATTCT	TAAAGTCAGA
164521	CCGGATTTTT	TGCTCTGAA	TCTGTACCTT	CTCCTGGAGT	CAAGAAAGTA	TGGTCAAAAG
164581	GTGGAAGTAA	ACCAAATGTC	ACTCTATGGA	TGAATGGATA	AACAAGAATG	AAAGTCTGAC
164641	ACACGCTACT	ACATGACAAG	CCTTGAAGAC	ATTCAAGCAA	AATAAGCCAG	AAACAAAAGG
164701	GCAAATATTG	TAAGACTTTG	CTTATACAAG	GCATCTGGAG	TAGTTAAGTT	CATAGAGACA
164761	GAAAGTAAAA	TAGTGGTTAC	AAGGTGTTGG	CAAGACCAGA	AAATGGACAG	TTATTGTTTA
164821	ATGGGTAGTG	AGTTTCAGTT	TAGAAGATGA	AAGATGAAAC	TGAGTTGCAG	TTTGGAGATG
164881	GGAATGGTGA	TGGTTGCACA	ACAATGTAAC	AATGTAAAAG	CACCTAATTC	TACTGAACATA
164941	TATACTTAAA	AGTGGTTAAA	TGCTTAAGTG	TTATATATAT	TTTCACACAA	ACACACACAC
165001	ACACACAATC	AGCCACTGGG	ACATTATTTT	CTCATGAGTC	ACTGAAGCTG	GAAGAATGTC
165061	CCCAGTTTCC	TGCTGCAGAG	TCTATGTGTG	GAGGCAGGCA	CTCAGATGTG	GAAGAGGTTG
165121	CCTCAGATTC	CTTATAGTCA	CCCAATTAAT	TTTCTTGTTT	TTCAAGCCAA	ACACAGGAGA
165181	AAGCTGGGTT	AGGAGTGCTA	GATAATTTAA	TTGTGAAACT	AGGGCCAAGT	TCAAACACTT

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165241 TATCAGTTAC AAGGATAAAA AGAGGTTTTT ACTTATGATT TAAGAAGTTA GATTTCTGAG
165301 TTGGAGCGAT TTCTTGAAG TAAAAGCTTA TAATGAACAT CACCCAGACT GGATTTTAAG
165361 ACAACCAGGC TGGTAAGAGG GTCCATAATT CTGGCAGGG GGAGCTTTGA GTGTGACAGG
165421 CATTTATTAT GGTTAACTGA GAAATACTGT TCTACTACCC TAGGGTCATC TTAAGCATTC
165481 CTATGTGTAA GACTGACAGA AATCAAGTGA AACTCTCATC TGAGGAGATG TAAAGTTGCA
165541 ATTTCCATTA GTGCTGTCTA AATTAATGCA GTGGGAGTGT GTATTCAGGG CAATTTGAAT
165601 CTATGTTCTT GGATTGCAGT CTTCAAACCT GGCCCAAATA AACTCTCTAC TTATCTTAAA
165661 AAAATAAAAA TTAAAAATA AAAATAAATT CATACAGTGT TTTGATGACT ATGATATAGA
165721 AGAAGGGTCT TTGACTTAGG ATGAGGTGGA ATTTTTGTGT AGGAGACAGG TGCAGCTTTA
165781 ACTCTTGAT AGACGGGTTT TCATATATGT TAGTTACAAT CAAGGTCTTC CCCATTGCCC
165841 AAGATCCTAG AAATGGGGGA AGTAAGAGTG TACTCAGGAG CTAAGAGCA ACATCCACAA
165901 ACAAAGATCA GGGTAGAGGT TAGAGAGGAC TCCTGAAAGA GAGAAAATTG GTAATCAGCT
165961 TGTGGGATTT TACTGCAAGC TAGTGAATTA TATAAATATA AAGATTGGTG CAAAAGTAAT
166021 TGTGGTTTTT GCCTTTACTT TAATGGCAAA GACCGCAATT ACTTTTGCAC AAACCTAAAT
166081 ATTTCCATAA AAGAATGTGG CTCTGATAAT GTGGAGGTTA GTCAGCCACG GAAATAATCT
166141 GAAAGTTTGT AGTTGCAAGT GTGTAGGTTG TTGCATTACT TGTGATGTAC TTATAAATCA
166201 AGTATAGGCC GGGTGCAGTG GCTCACGCCT GTAATCCCAG CACTTTGGGA GCGCTGAGGTG
166261 GGTGAATCAC GAGGTCAGGA GATCAAGACC ATCCTGGCCA ACATGGTGAA ACCCCGTCTC
166321 TACTAAAATA CAAAAAATTA GCCAGGCATG GTAGCACATG CCTGTAATCC CAGCTACTCA
166381 AGAGGCTGAG GCAGGGGAAT TGCTTGAACC CGGGAGGTGG ACATTGCAGT GAGCTGAGAT
166441 CGCACCCTA CACTCCAGCA AGACTCCATC TCAAAAAATA GTAATAATTT AAAAATAAAT
166501 AAATAAATAA AGTATATTTT TTTTCATCAGC TTCATGAGCT TGAGTAGTAT GAATTTCAAT
166561 CTGGAGTGAT CCTGTTTTCT AAGTGTTTAC AAAGCTTGGT TTCTGTACCT GTAAAGTTGA
166621 GAGCCAGATG CTCCACTGTG GTAAAAGTGC CAGGGTAATG AGTTGAGGCC TGCAAACCAG
166681 GTTTATTTTG AGGTATTTAA AGTTTGAGC CCACTCGATG CTTTTTCTAG GTAAATAGTC
166741 ATACTAATTC TGCTTCTTCT GACTGAAGTA TCAGGAATCC CAGCCAATA CAGTTTAAAG
166801 ATGGAAGAT TGGTGCTAAA TACTCATGGA TGTAACCTG GAACCAGGGG CATAAGTACA
166861 AATAATGGTT TCTTCCTTGG GTTTCATTTT TTCAATCTGG TTTAGTGAGA ATAAATCCTC
166921 ATTGTGCTTT TCCTCAATCA TCCCCTATGC CTAAGCTCTA GAATGGAAAA TAGCTTGAGA
166981 TCAATGAAGT CAGATTCCTA CTTTCCATTT AGTTATTCGC ATTGCTGTGG ACAGCTTCTG
167041 CTCCGTACAT CTGCTCTCAA GTTGCTTCAG TTTTGTCACA GCTTCTGGA GCTTTTCTCTG
167101 AAGGAAAAAT TTGATAAGTG AAGCCTATTC AATTTGACTC TTCATTAGGG ACCTAGGGGG
167161 AATCCCAATC TTCTAAGATA TATTTGAATA ATAGTGAATA TTTATAGAGT CCTCATTGTT
167221 TTTTGCTAGA GAGCATGCTA AAGGCTATAT GTGCAGGAAC ATACTGATCC CCTTGGAAC
167281 CCTGAATAGT TGGTAGGATT TTAACTTCA TTTCTGTGCT GTAGAAAATG AGACTAAGAA
167341 AGGGGTAAAA TAACTTGCCC AAAGGGCTAT GACTGCCAGG TGGTGGAGCA ACAATTGCAA
167401 TCTCATCTGC TGACCCAGAG CCTGAGCTAT GTCCACCACT AGAGTCCTGC CAGGAAAAAG
167461 TTGGATATAG AACAAGGTAA TCATCATCTA AAAGATTTTG TAAACAACA TGCTGAACCA
167521 AGCAAAACCA ATACCAAGTG TTGGCACACA TGAATTTTG TGTCTTATGA GTCAGGAAAA
167581 ATCAGGATGC CAGCTGGTTA TTAGAAACAG TTCATGGAAG AGGGGAATTC TGGTATCTTT
167641 TGAACAATGG TATCATGAAT CCAATTTAAA ATGATTTAGT ATTCATGTCA AGCTTTTAGC
167701 TTATCTTCA AAACAGTTT TCATATTTCT ATTGAAAGTG ATTTGAAGCT GACCCAAAT
167761 GCTAATTGTA GTCAATGCTG AAAGAATTGT CTCCTGTCT CTGTAAACCC AACAAGTATA
167821 CTCATTCATT CTCGAGTGTT CTCAGGAAAA GGTTCATGT AACTGTTTTA GCAAAGATG
167881 ACATTGTCTT TACTATATGC CAAGTGCTAT TCTATGCATT CTATATTTTA ATGTCCTCAA
167941 AGCTTATAAC CACCTCCTGT GTATGTGTTT TAGGGAGGGA GGACACTGCT ATTATCCCCA
168001 TTTACAGATG GAGAAACCAA GGTGTGAAGA CATTAGTAA CGTGCCCAA ATTGCCATC
168061 TAGTAAGTGA CAAAACTCAA TTTCACATA AGCTGGTTCC TTTTCTTACT ACTTGGTGGA
168121 AAAGTAATTC AAATGGGAAT ATGATCATCG CAGTTATTAG CTGCTCCATG GAGTTTAAGG
168181 AAGAGCTGCC ATGAGCTGAG TGGTGGTCA GATTGACATG TCCTTAGAAG GACTTAGAGC
168241 CTTCATACAA GACCACCTCT GCCTCATGGA GGACAGAATA AGGAGCCTGA CACTGAGAC
168301 AACATTTTCC TCAAATTTAG GCAGGACAGA GAAGGAAAAA GGACATCAGG ACTATGCCCA
168361 TTCTCCATG CTGCCAACAG CAAAGTCCCA CTTCTCTTAA TATGCTTTCT GGCAAGAAAT
168421 CTGGATGGTA CACAAAACCT CTCCTCTGCT TTCACCTTCC ACAACCAAGC ATTTCCAAAT

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168481 CTTTGACTCT TCTTCCTGAA TCGTGCTTAA AATCTGCCCT CTCCTCCCTT TCTTATACGG
 168541 ATAGTTTGAA TTTTACTCCT TGATATTCCT TTTATCATAG ACATGCCACA GTAGCTGGGC
 168601 ACAGTGGTTC ATGCCCTCTAA TCCCAGCATT TTGGGAGGCT GAGATGGGAG GGAGACCAGG
 168661 GGTTTGAGGC CAGTATAAGC AAGAAAGGCA GACCATGTCT CTACAAAAAA TAAAAAAATT
 168721 ATCCAGGTAT GGTGGGGCAT CCCTGTAGTC CTAGCTACTT GGGAGGCTGA GGTGGGAGGA
 168781 TTGCTTGAGC CCCAGAAGGT TGAGGCTGCA GTGAGCCGAG ATTGCACCAT TGTACTCCAA
 168841 CCTGGGATAC AGAGCAAGAC CCTACCTCAG AAAAAAAAAA AAAAAAAAAA AAAGTAGAGG
 168901 TACCAGAGTG ATATTTTCAA TGTCACTGAC CCTTCATTCC CCAAATGAAA ATCCCCCAAT
 168961 AGGTGTTCAA TTTTACGTG TCCTTCAGGA GTTACTTCTA AGATGAACCA CTCTCTACCC
 169021 TAAATGTCCC TCCCCACCAC CAAAACCAGG GACCTCCAGG CAGACATTTT TGATGGTTTG
 169081 TTTTCTTTAC TAGACTGTAG ATACCTAAAA GGTGATGGGT CTTTCTTCCC TGTTTTCAGG
 169141 CCCTACTGCA TGGCTTTACA TATTGTGGTT TTTCAAATGA TATTCATGGT GTGAAACAAG
 169201 AAAAAATGCG GGTGTTTGGT TTGAGAACAA CCTGTTCTAA AGCAAAAAGA AATTCATCAT
 169261 AACACAAATG GATAGAGATA AGAGTCCAAC CATCCCATTT AAGGTCAGGA TGGACAGTCT
 169321 AGATAATTGA GCAAGAAATC ATCATAAACT ATTTTTCAGA AGAATGACAT GATGAAAGCT
 169381 GTATTTCCAA GTCATAATGT TAGGTTTCAA GTTAAATCAT CTCAGCTCCT GGGGAGCAGG
 169441 ATAAGACTTG GTACTTACCA AAGCTCCCGG GCCCACACAC TCACCTTGTA GCCCTGGCAT
 169501 ACGTCTTCAA CAAGAGCTGT GGTGTGCCCT TTGTGCTGTG GTGCCCCGCTC ACAGCGCCAG
 169561 CAGATGAGCT GCCCCCTATC TTCGCAGAAC AGGTGGAAC TCTCTCCGTG TTCTTCACAT
 169621 GACATTTCTT GATCCGTCTC TTTGAGGGCT TCAATGAGGC TTCCCAGCTG CTTGTTGGGT
 169681 CGGAGGCTAT CCATATGAAA TGGAGCCCGA CACTGGGGAC AGCAGAATGT CTCCTGCCTC
 169741 AGTTGCTTTT GGCTTGGGTT TTTAAAGAAG TCTGTTATAC ACAAGTGGCA GTAGCTGTGT
 169801 CCACAGTTGA TGCTTACTGG GTTCGTCATC AGGCTCAGGC AGATGGAGCA GGTGGCTTCC
 169861 TCCATCATCT TCTTGGTGCT GGTGTTGATG GCCATAGCTT TTATTGAAAA GCTCCAATAT
 169921 TGGCTCTAGA GATGGAGATG AAGCAGCCAG AATTTTCCAC CGTGATGAAA ATACACCTCA
 169981 CCTGCACCTC TATGTGATGA GCTGGCTGCA ACTGACTTCC ATAGGTCTTG AAGGTTTTCC
 170041 TTCCAACCCC TATTATCTCA TTTTGTATTG AAGAAAAGAG GACCTAAAAG GAAGAAGTTG
 170101 AGGCTGAGGT TGTTTGGGCC ACGTTTGAGA ACTGCAACCC AAGTGCAGAG TTTCAAGTTG
 170161 CCCTCATTAG CAAGCAGTTA CAAGTGGTTG TTTAGAGGAA AAAAAGCAGT TTTAAAGCAG
 170221 TTTTAAAGTT GTTTGCCAAG AATTTACATT AAAATAGCAT AAGCTTTTGA CTGGCTATAC
 170281 ATTGTTCTTT GTATTACAAA TCTCGGGAAT ATGTAGGTAA TAGATGAGGC AGCCAGTCAG
 170341 GAACAAAATG CTTTTAAACA TGGGCTCTTA ACTGAAGACC TATACTCCTG CCTCACTTGT
 170401 CCTGATAAAT TTTGCATACC TCACATAGCT CAGACTGCTC TAAATTATTT CATTATTTTT
 170461 CTTTTCTCAG TCTTCTAACT TTTTTTTTTT TTTTAAATGA GACGGAGTCT CACTCTGTCA
 170521 CCCAGGCTGG AGTGCAGTGA CGCTATCTCG GCTCACTGCA CCTCCGCTC CCGGTTTCAA
 170581 GCGATTCTCC TGCCCTCAGCC TCCCGAGTAG TAGCTGGGTC TACAGGTGTG CACCACTACG
 170641 CCCAGCTAAT TTTTGTATTT TTAGTAGAGA TGGGTTTCA CCATGTTGGT TGGCTAGGAT
 170701 GGTCCTGATC TCTCGACCTT GTGATCCACC CGCTCAGCC TCCCAAAGTG CCAGGATTAC
 170761 AGGCATGAGC CACCGTGCCC AGCCTCTTTT TCTTTCTTA TAAGACAAGT TCTCGCTCTC
 170821 TTGCCCAGGC TGTAGTGGAG GGCAGTGGCA TGACCACAGC TCACTGCAGC CTCGACCTCC
 170881 TGGGTTTAAG CAATCCTCCT GCCTCACCTT GGCAGAGTGG CTGGGACTAC AGGTATGTGC
 170941 CACCATGTCC AGCTAAAGTC TTCTCTCCAG AAAGAAGAAA TGCATTGGAA TTTAGAGGAT
 171001 ACACAAACAT CTAGCTGTAT AGCTAATACA GTAGCCACTA TCATGAGTAG GAATTTAAAT
 171061 TTAACCTAAT AAAAATTAAT ATGAAAAAAT TCAGTTTTTC TGTTCCAGTT GCCACATTTT
 171121 GATTGCTTAA TAGTTGCATG TGACTAGTGG CTACATAACA GCCTCAATAT ACAACATTCT
 171181 GTTATCACAG AAAGTTACCT TGGACCAAGT GCTGGGAGAA GCAATGCAGG CTTCTCACA
 171241 AAAGCTGTAA AAGAGAGAAC TCAGGGAGTG TGAAACTCTT TCCTATTCTA GTTAACTTCA
 171301 AGAATAATTG TTACCAGGCC AGCACGGTGG CTCACGCCTG TAATCCTAGC ACTTTGGGAA
 171361 GCCGAGGCGG GCAGATCACC TGAGGTCAGG AGTTTGAGAC CAGCCTGACC AACATGGCAA
 171421 AACCTCATCT CTAATAAAAA TACAAAAAGT TAGCTAGATG TGGTGGTGCA CACCTGTAAT
 171481 CCCAGCTGCT CAGGAGGCTG AGGAAGGAGA ATGACTTGAG CTCCGGAGGG GGAGGTTGCA
 171541 GTGAGCCCGC ATTACACCAC TGCACTCCAG CCTGGGTGAA AGAGCGAGAA TCTGTCTTAA
 171601 AAAAAAAAAA AAAAGAATAA TTGGTACCAG AATTACTCTT TGTAATTAGT AGTAACACTT
 171661 ATGCAATTGG GTGATCTGTG ACAGATTCCA TTGAAGGAGT ATGGGGAGCT TCACCCCAAT

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171721	ATATGACTCC	CTGGTATAAT	GAGTATTTTG	AATTAAAGGC	CCTTAGAGAT	CAGCAGATGC
171781	TGGAAGAGAC	TTTTCCTTA	TCTACATAAA	GACCAGTCAC	ACTAGACAAG	AAGAACAATT
171841	GTTTTTCCTT	CCAACCCCTA	TTATCTCATT	TTGTAAGTAA	GAAAAGAGGA	CTAAGAATGT
171901	AACCAGACCT	AATCAGACAC	TTTCACAAAA	TAATGTCTGT	CTCTCAGGCT	CATTCATTTT
171961	CCAAAGAGAA	CCATTTACAA	GTTAAACTCT	GTTCTCCAT	TCATTCATCC	TCCCAAATAT
172021	TCATTTATTC	TCCCTAGTAA	TCATTTACTG	CCCCTCAAAG	AATTACCTAT	ATTCTCCTGA
172081	TATCACCTTT	CCCCTCTGAA	ATAAATATGT	ATACATGTAT	AAACGTTATA	CATACATATT
172141	TATACAGTAT	ACATACATAT	TTATACATAC	ATACATATGC	ATACATATTT	ATATTTATGT
172201	ATTTATACAT	AAGTATTTAT	AAATAAGGCT	ATATAAGTAT	CTACCCCAT	TGGCAGAGGG
172261	GGTAATCACT	CTGTGATTCT	AGCCCATGTA	CTTGTTAATA	AATTTGTATG	CCTTTTCTCC
172321	AATTAGCCTG	CCTTTTGTGA	GTCGATTTTT	CAGTGAACCT	CAGAAGGCAA	AGGGGAAGTG
172381	TTCCCTTGGC	TCCTACACCA	TCATGACAAT	AAAATTTGAC	TCCACCTCGA	CCCCCCCCAT
172441	CCCCACAAA	GAACAACAAC	CAACACTGGT	TAATAAGGTC	GGTTGTTTTT	TGTTTGTGTT
172501	TTTGTTGTTG	TTGTTGTTGT	TGTTGTTTTT	GCTTTCAGGA	GCAGAGGTAT	AATAGGCAAA
172561	AGAAAGAGAA	AGGAGAATAG	TGAATACCTC	TTCTGCAGAG	AGGGGTGCCT	AAGTGGGACT
172621	TCCCTGGCTA	ATAACGTCTT	GCTAGAGACC	CAACCAGGAG	GATAATGGAA	GCAATCAAGG
172681	CAACCAGAAC	AACCAGAAGA	ACCAGTTTAT	CCTTTTGTG	CCCTCTCCCT	AAACTGAGGG
172741	AATAAGAATT	GGAAAGAAGG	CTGCAGAGCA	GAGGGTTTGC	TCCTGAGGAG	CAGTTATTTT
172801	TATGGGATCA	GAGCTCCTGC	AGAACTGGGG	AGTTTACTTT	TACTATCTCT	TCTCCAGGAC
172861	AGGACCTATC	TCAAGAGACA	TGTTCAAGAGT	GATTGCAACA	TAAAGAGTTT	GCAGACCCAA
172921	GGAGGTAGGG	AAGGCAGAAA	GAAGATGGGG	GAGGCCAGGG	ATAGGCAACA	GAGGAGTGAC
172981	CAGGAGCGAA	AAAGCCTGCC	TCTTCTGAGA	ACCTAGCTGG	GCTCTCCCTG	TACCCCCGAT
173041	CCCTCCCCC	CGCCCGCCCC	CACACCCCTA	CTCCTGGGAG	CTCCTCTAGG	ACAGGGGCAG
173101	AGTCAGGAGG	AAGTTTGAAG	AGTGCCCTAGA	ATAAAAAACA	GTAATTTAAC	TACAATTACC
173161	GGGTAGGCTG	TTTTCCTCTC	ACAATTTGAT	CAGTCTCTTG	AAGCCACACA	GAATTTCTTC
173221	TGAAGACGTG	TATTCCTTGG	CAGGCTATTT	CCTCCAGTGA	TACACCAGGC	CCCTCTCTGC
173281	TGGGGTCACT	GCTCTTCTGG	GGAGATGGGG	CTCCCTCCT	TCCAAGGCTC	CAGGGTTCCT
173341	GTCCTGGGCC	CCACTCATCT	AAGTTCTGAA	TCTTCTGAGA	TTTGGTGTA	AGTCTGGTGA
173401	AAGAAAGAGC	AGGAAAGAGG	TGAGAGCTGT	AAAACAAAGA	AAGTCCTGAC	CATTTTCAGA
173461	GTTGGAGGGG	CCCTGCTGTC	ACGAAATATA	TTCCCCACCC	CACTTGCCAT	CAGTACACAC
173521	TCACATATCC	ACTGAGAAAA	CCTTAGCCTG	GACCTTTTCC	GTAACCTTCA	CTGCTCAGAC
173581	ACTTACATAT	TCGCTGCTAG	TCCCTCTGT	TGCTGCCACT	TCCTGGGTCA	GGAAGTTAAC
173641	TCAGACCGGA	TTAAACTGAG	AAGTGAAACT	ACTGTGGGAG	GCGGGGCTCA	TAAGATTTAG
173701	GAGAAACTA	GTGACGTTGT	TCATATCATT	TGCACTCCGC	CTCTCCGGTA	AAGGAGGGGG
173761	AAACGTAGGA	AGAAAATATC	CTTCTTTTAC	AGCAATAAAA	AGAAGGAACC	AATTAATAAC
173821	CCTGTAAACT	ATCATGTGAC	CCCAACACAG	AGTATCTAAA	AACAGGAAGC	CTGCAGAGGT
173881	TCAGTTCACA	GACTCTGATT	TGAGATCTTT	CTACTTTTGC	CACCAACTCC	CTTGGGAGTC
173941	CTTAAGCCTT	CCTAGCTGAT	GTTACTTCTT	TTGCTATTTA	TGGGTTGCTT	GTGGTTCTAT
174001	AACTGCTCTG	AAGGGTGTGG	TGGAAAAAGG	GGTGGTAACA	GCAGTAGGAC	TCATTGGCAT
174061	CACAAAATTC	ATCTGAGTCA	GCTTCTTATT	CTTCTCTGTC	CCGTTCTGTG	TCTTGTTTTT
174121	GTCCTTGCTG	TCCTTCTGCA	GGACTCAGAT	CTTCTTCAAT	AGCGAGGGTC	AGCCAGGATA
174181	GAAAATGGGA	GTCACAGTGT	GCCCAGCAGT	GAGTGCCCCC	AGCTTAGAGC	TGTGTGGGAT
174241	CCCTGGGACC	ATCACTCTGC	TTTGTGCTTT	GTGGAGAAAA	GGCTGTGGGG	TCCAGGGTCA
174301	AGTCCTTAAT	GACTTAGCTC	CAGCTTCTCC	ACTTCAAAT	GAAAGGAAAA	GTACTATCAC
174361	CACCCGTTAG	AATTATTATT	TCATGGGGAA	AAAAGATGGA	TTACTATCTC	ACAATAAGAG
174421	CTTGTCACAT	TTATAAGTCT	CAGGTGTAAG	AGGCATTTAT	GATAACAACA	TAATAAATGC
174481	TGGCTTAAGT	AGATGCAGTG	GTCCAAGGGA	ACCAGTAAGG	GGAGCTCAGG	ACACAGGTGG
174541	GAGGAGAAAT	TAACTTGAA	TTCTGGGAGC	CAGTGGCCTG	TCTGGGCCCC	TGGCCTGCCT
174601	GCTGACCCCTG	ATAGCCAATG	GAACATGGAG	TTTGGCCAG	CTGCAATCCC	TCTGGTCCAA
174661	CTACTCAAAA	TAAAGGCAAG	ATTGGGAAAC	ACGTTCTTTT	CTTCTTATAC	CAAGCAGAAG
174721	ACTCTTCAGC	ACTGCACCCT	CCTGGGTGCT	CACAGAGCCT	TCTGTTGTTT	TGCCACTTAC
174781	GATTTCATCAT	GCCCTGGCAT	GATGGTTGCA	GACCCCATGC	ATAGCATGGG	ACATTCTACT
174841	CCTGAGGCAA	CCAGCACACA	GAGAGAGGAG	AAAGAATGAG	CCCCTGAATC	CTTGGTCCCA
174901	CGATGAGTCC	TGTCAGATAT	CTACAACCTT	CATTGTTGTG	GATGTGACTC	TGTACCCAGG

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174961 CATGGCTCAT TCCAGATCTG TCCTATTGTC AGAGGTGTTT AAACCAGAAT GACTCCATTT
175021 TGAATGGGGG CTAGGTAAAA TAAGGCTGAG ACCTACTGGG CTGCATTCCC AGGAAGTTAG
175081 GCATTGTAAAG TCACAGGATG AAATAGGCAG TTGGCACAAG ACACAGGTCA TAAAGATCTT
175141 GCTGATAAAA CAGGTTGCAG TAAAGAAGCT GACCAAAACC CACCAAAATC AAGATGGCAA
175201 CAAGAGTGGC CTCTAGTCAT TCTCATTGCT CATTATACAC GAATTATAAT GTGTTAGCAA
175261 GTTAGAAGGC ATTCCCACCA GTCCTATAGT GGTTTATAAA TACCATGGCG ATGTCAGGAA
175321 GCTACCCCTAT ATAGTCTAAA AAGGGGAGGA ACGCTTGGTT CTGGGAATTG CCCACATCTT
175381 TCCCAGAAAA CATATGAATA ATCCACTCCT TGTTTAGTAC ATAATCAAGA AATAACTGTA
175441 AGTATCTGTA TTAGTCCATT TTCACACTGC TGATCCAGAC ATACCTGAGA CTGAGTAATT
175501 TATACCAGGA AAAAATGTTT CATGCTCTTA CAGTCCCACG TGTCTGGGGA GACCTCACAA
175561 CCACAGCAGA AGGCAAGGAG GAGCAAGTCA GGTCTTACAT GGATGGCAGC AGGCAAAAGAG
175621 CTGTGTCAGG GAAATTCCTT CCTATAAAC CATCAGGTCT CATGAAACTT ATTGACTATC
175681 ATGAGAACAG CAGTATAAAT TACTCAGGGA AAGACCTGCC CCCATGATTC AATTACCTCC
175741 CACCAGGTCC CTCCCACAAT ATGTGGGAAT TTAAGATGAG AGTTAGGTGG GGACACAGCC
175801 AAACCATATC AGTATCCTTA GTCCAGAAGC TGATGCTCTG CCTGTAGAGT AGCCATTCTT
175861 TTATTCCCTT ACTTCTTGC TTTCACCTTA CTGTGTAGAC TTGCCCCAAA TTCTTTCTCA
175921 CACGAGATCT AAGAACCTTC TCTTAGGGTC TGGGTTGGGA CCCCCTTCTT GGTAACACTA
175981 TCAAAGGATC AGGAAAAGGA AGCTAGTGAA TGCTAAAAAG GAAACAACT ACCATTACCA
176041 ATAATAACAG CAAGACAAAA GCAAAACGGA TTGTGACAGC TGTCCCCTCT CACACCTGTT
176101 TCCCATTGCA GGAAGGAGGG GCTGGTTCAT GCACAGAGTG GCCAATATTA GAAGCAGAGA
176161 GGGGGTGCAG ATGAGACTTC AGGAATATGT TGACAAAGGC AGGCCTAGGG AGAAATCAAC
176221 CTGAACTATC CCCAAGGAGG AATGCATTAT CTCTAATATG TAAAGTTAGG CTTGATCCTG
176281 TGATTATGGG ATATAGGAGT CCAAAGACTC ACAATGGGAA GTAGGTCACT AGAGTCTCCT
176341 TCAGAAGCTC TGTACTGTGT GTTCCCCTG TGGCAAGAG TCAGCACTCA GCTATTCCCTA
176401 GAATGCCTTT CCTCAACTCC TTCAGATTTT GCCTCTCAAC TAACCCTATC CTGACCCTT
176461 GTTAGCAAGT GTACCCCTCT CTCCCTCCCA AACATTTTCA AATCTATTTT GTTCCCCTG
176521 CACTTATCAC TGAATATTTT ACTAATTTAT TTTGTTTAGT GTTTGCTTCC CTCATGAGAA
176581 TGCAAAGGGA TGGATTTTTT TCAATATTGT TCACTGATGA ATCCCAGTAA CTAGAATATT
176641 TCTAAGCATA GTGATGTGCA TTAATCAAA GAGTAACCTT CTGAATTGCA CTAACACAC
176701 ATCACAAGAG GTGTGTGCAC ATATGTGCAT GATGCACGTA GTGTGGTGTG GGTGTGTGT
176761 GGGGTATGTG GTACTGTGTG TGCTGTGTGT CCATACATAT TAGGGGTGGC GGGGATGTTA
176821 ATGCATGTGA TGTGGTATGT GTGTGCGTGT CCATACATAT TAGGGGTGGC GGGGATGTTA
176881 ATATGTCAAA TGGTACTAGA AAGTATCAGA ACTCATGGTG CTTACTGGTT TCCCAGAGAG
176941 CTGCTTCTCT CCCACCTGTA GGATATACTG ATGGTTTGGG CAGAGAAGAA ATAAAAAGAA
177001 GGCCTGTGACC TACTGGGCTG AGGAAATAAA AACGAAAGTA AAAGAAGAGC TGGGAAAAGA
177061 GAGTGGAGGG GCCAAGGGAA ATTTCCCCTT TGGCTTCTGG GGAACCTTTG CTGAAAAATC
177121 AACTCACAAA TTTATTAACA TGTACACAGG GAGAACCATA GAATGATTAT CCACCTCCCA
177181 AGAGGGCTTA AAAGCTTATA TATTATCCTG GCAAAACAGA TTATGGGAGG GGAAGAAGAG
177241 AAACCTGTGT GATGGGATTA CTGTTGCGGA TTTTGTCTCC TTCGCTCAGC TAGGTCCGGG
177301 TTTTGTCTC ACAGCCAGGA AGAATTAGGC ATGCAGCCAT CAAAGAATGA GTGGAGTAGA
177361 ATTTATTAAG TGAAAGGAAA GCTCTCAGCA AAGACAAGGG TCCTGAAAGC AGATTTCTGG
177421 TTTGCTCTTC ACAGTTGAAT ACTAGGGCTT AAGACTCAA TTCCTGACAA CTCCACCCTG
177481 TCCTACCAAGT GCATGCAGGC CTTTAGACTG AGCTACTCCA TATTGATTAA TTTCTGAACT
177541 TGCGCATGTG TTAAGGAAAG GAATCATCCA CTGCAGGCAT GTTTAGGCAA GCCCCCTGTG
177601 CAAGTTCCTT TATCTGCACA AAACATCCGG TGTAAGCACT TGTGGGGCAG GTCAGAGGTT
177661 CTCTGGGTAC CATTCCCTTA CTGTCTGCCT AAAGCAAGCT GGCCAACCTC TTTCTACTT
177721 AGGGAGAGTA AGTAGATCAG GGAACAGAGA TTAACCTGAA CATTATCTTG TGAAAGTCCG
177781 TTCGGGCATG GTTACATTCT TGGTCTTACA GGAAGGGTAA ATAAAAATAA TTGCTCTTTT
177841 TGGTGGGTCT GGATCTTAGG TAGATAAAGA AACTTTAATT CCACGATGTG TTTTGGTAGG
177901 GATAGTTGGT GGCAGGGATG TCAGAGAGAC TTTGAGGCTT CTTCACTTCA ATATGACCAA
177961 GGGCCATATA TTAGGGTATC AATTTCTGAG CCCCACAAG AGCTTAGGAG AGATGTGATA
178021 GCATCACAGT GTGAAAGCAA TTTTGTGTCT GTTTTGTAGG ACAGGCTCTT GCACTGTCAC
178081 CCTGGCTGAA GTACAATGGT ACGATCACAG CTCACTGTAA TCTTGAAGT GGTTCAAATG
178141 ATCTCCCAT CTAAGCATTT CAAAGTGTG GGATTACAGG CATGAGCCAC GGTACCCAGC

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178201 CTGAAACTGC ACCCACTTTC TGATAAACTT TTCAAATGAC TAAAGGGGAG AGAGTAAGCA
178261 CTAATCAGAG GTAGGAAGAA AGGACACAGG ATTATAGGAT TAAAACAACA ACCACCAAAA
178321 AAAACCAGAC CGGTGTGGTG GCTCACACCT GTAATCACAG CACTTGGGGA GGCTGAGGTG
178381 GGGGGAGTCA CTGGAGGCCA GGAGTTCGAG ACCAGCCTGG CCAACATAGC AAGACGCTGT
178441 CTCTATTTAA AAAAAAAAT ACCTGCCTTG AGCTAATCAG AATCATGGAC CCTGACAAAG
178501 GATGTCCCAA AGTAAGTCTT AGCATTTTTT TTTTTTTTTT GAGACAGTCT CGCTGTGTTG
178561 CCCAGGCTGA AGTTCAGTGG CGTGATCTCG GCTCACTGCA ACAGCTGCCT CCCAGGCTCA
178621 AGCAATTCTC CCTGCCTTCA GCCTCCCAAG TAGCTGGGAT TACAGATGCC CACCACCAG
178681 CCTGGCTAAT TTTTGTTTTT TTTAATAGAG ATGGGGTTTT GCCATGTTAA CCAGGCTGGT
178741 CTTGAACTCC TGACCTCAAG TGATCTGCCC ACCTTGGCCC CTCCATAGTG CTGGGATTAC
178801 AGGCGTGAGT CACTGCACCC GGCAAAGTCT TAGCATTCTT TACAAACAGT TTGTACCCGT
178861 ATCTCTAAAA GGGAGTAGTG AATTTACCCC CAAAATATGG CTTCTGATA TAATGAGTAT
178921 TTTGAATGAA AAATCTTTAG AGATCAACAG AACTAAAGA GACTTTTCCC TAGGTACATA
178981 AAAATAGGAT GGCCCCACCA GCGAACAAC TTGTTCTTTT CTCCTCCCT GTTATCTCAT
179041 TGTGCATTAT AGGAAAGACC AAGAATGTAA CCACACCTGA ACAGACCCTT TTATAAGATA
179101 ATCAGTCTCT AAGCATCATT TAAATTCCAA GGAGAATAT TTACAAATTT ATCTGTCTT
179161 TGATCCCAAT AGTCTCTCCT GGTAGTTACA TATTGCCCCC CAACAGAATT CCTCTTCTT
179221 TGTTTCCCAT AACCTATTTT GCAAGGATCA AGCCCCGTGT ACTTCTTCAA CTTCAAGTTG
179281 GCATATAAGC TTCTAAATTC CACTGGGATA TTGGTACTAT GTGCATGAGG AGAACCACAG
179341 AGTAATTAAA TTGTAAAGCC TTTTATCTTA TGAATCTGCC TTTTTTTGTG TTCATTTTTT
179401 AGCAAACTT CCAAGGGCAA AGGTATAAAA CAAAATAAAA ATTCTAAAGC CCCCCAACCA
179461 TCTGAATAGA CTTTCTCTTC AGTCAGGCTT CTTAAATGT AACCTGAAAG ACTGGCTCAG
179521 GCCATTAAAG GAAGTGGGGG TTGAACATGC CTCATTATTC CTCTCTGGCA TTAACATCAA
179581 CACAGCTTTT AAGTCTGATA AGAAACATT TACAACCTAT TCTCTCTGAA GCCTGCTAGC
179641 TAAAAACTTC ATCCCATAGT ACAACTTTGG TCTTCACAAC CTGTTATCAC AACCTAGTGC
179701 TCCTTTCTAT TAATCCCAA TCTTTATACA AACTCAACCA ATTGTCATCA CATTCTTAA
179761 ACTCCTCCGC TGCTTCCAGT TGTCCCGCCT CTCTGGACCA AACCAGTGTA CATTCTTAA
179821 ACGTATTTGA TTGATGTCCC ATGCCTCCCT AAAATGTATA AAGCCAAGGT GCATCCCAAC
179881 CACCTTGAGC GCTTGTCTC AGGACCTCCT GAGGGCTGTG TCATGGGCCA TGGTCACTCA
179941 AATTTGGCTC AGAATAAATC TCTTCAAATG TTTTACAGAG TTTGGCTCTT GTCATGACAC
180001 AGATGACTGC TTCACTGAAG CCTGCTCTGG AAGTGAGTGG GGGTTTGCA AGGATAATTT
180061 TCCCCGGATA GCCCCAGAAG CAGCTAGTAA TAATACACTT AAAGGTAGCT AAAATGCATT
180121 GAACACTTGT TTTGTGCCAG ACCTATGTCA ACATTGCTT TGTGCCAGGC TTATGCCAGT
180181 ACTCCTGATT TGTTAATACA TTCTAAATAA AAATTCTGGA GTTTCAAATA TAATAACTGA
180241 AAAACAGAAA ATAAATAAAA ATATATAATA ACTGAAATAA AAATTTACTA AGGCTGGGGA
180301 TGGTGGCTCA CTCACACCTG TAATCCTGTT ACCGGAAAGG GGTCCGTCCA GATCCAGACC
180361 CCAAGAGAGG GTTCTTGGAT CTCACACAAG AAAGAATTCT GGCAGTCTG TAAAGTGAAA
180421 GCAAGTTTAT TAAGAAAGTA GAGGAATAAA AGAACGGCTA CTCCATAGGC AGAGCAGCTC
180481 TGAGGGCTGC TGGTCGCCCA TTTTATGGT TATTTCTTGA TTATGTGCTA AACAAGGGGT
180541 GGATAATTCA TGCCTCCATT TTTTAGACCA TATAAAGTAA CTTCTGACG TTGCCATGGC
180601 ATTCGTAAAC TGTCGTGGCG CTGGTATGAG CATAGCAGTG AGGACGACCA GAGGTCACTC
180661 TCATCGCCAT CTTGGATTTG GTGGGGAGCA GTGAGGATGA CCAGAGGTCA CTCTCATCGC
180721 CATCTTGGAT TTGGTGGGGT TTAGCCAGCT TCTTTACTTT TTTCTTTTTT TTTTTTTTTT
180781 TTTTTTTTTT GCCCAGGCTG GAGTGCAGTG GCACGATCTC AGCTCACTGA AACCTCCAAT
180841 TTCTGAGTTC AAGCGATTCT CGTGCCTCAG CCTCCCAAGT AGCTGGGATT ACAGGCATGT
180901 GCCACCACAC CCAGCTAATT TTTTATATTT TTAATAGAGA CCGGGTTTCG CCATGTTGCC
180961 TACGCTGATC TCCAACCTCT GCGCTCAAGC CATCCAGCCA CCTTAGCCTC CCAAAGTGCT
181021 GGGCTTATAG GTGTGAGCCA CCCCACCTGG CCTAGCCGGC TTCTTTACTG CAACCTGTTT
181081 TATCAGCAAG GTCTTTATGA CCTGTATTTT GTGCCCCACTG CCTGCCTCAT CCTGTGGCTT
181141 ACAATGCCTA ACTTACAGGG AATGCAGCCC AGCAGGACTC AGCCTTATTT CACCCAGCTC
181201 CTATTCAAGA TGGAGTCTTT CTTGTTCAAA TACCTCTGAC AAGCCCAACA CTTTGGGAGG
181261 ATGACACAGG AGGATTGCTT TAGCCTAGGA GCTCAAGACC AGCCTGGGCA ACACAGTGAG
181321 ACCCCATCTC TAAAAAATAA AAATACAAA AAATTAGCCA GGCATGATGG TGTGTCCTG
181381 TAGTCCCTGC TACTCAGGAG GCTGAAGTGG GAAGATGGCT TCAGCCCAGG AATTCAAGGC

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181441 TGCATTGTCA GAGGCATTTG AACCAGAATG ACTCTATCTT GAATAGGGGC TGGATAAAAT
 181501 AAGGCTGAGA CCTGCTAGGC TGCATTTCCA GTATGTTAGG CATTCTTAGT CACAGGATGA
 181561 GATAGGAAGT CAGCACAAGG TACACATCAC AAAGACCTTG CTGATAAAAT AGGTTGTGGT
 181621 AAAGAAGTTG GCCAAAACCC ATCAAAACCA ACATGGCCAC CAAAGGGACC TCTGGTTGTC
 181681 TTCACTGCTC ATTATATGTT AATTATAATG TATTAACATG CTAAAAGACA CTCCTACCAG
 181741 CATCATGACA GCTTACAAAT ACTGCGGCAA TATCTGGACT TTACCTTATA TGGTCTAAAA
 181801 GGTGGAGGAA CCCTCAATTT TGGGAATTGT CCACCCCTTT TTTGGAATGC TCATGAATAA
 181861 TCCACCCCTT GTTAGCACA TAATCCAGAA ATAACATAA GTATGCTTAT TTGAGCAGAC
 181921 CACGCTGCTG TTCTGCCTAC AGAGTAGCCA TTCTTTTATT TCCTTACTTT CTTAATAAAC
 181981 CTGCTTTTAC TTTACTGTAT GGACTTGCCC TAAATTCCTT CTTGTGTGAG ATCCAAGAAC
 182041 CCTCTCTTGG GGTCTGGATC AAGACCCCTT TCTGGTAACA TCTTTCTGGT GACCACGAAG
 182101 GGACAATACT GAGGAGACTC TGAAGCCAAA GGAACAGAC TACAGCACCA ACTGGCTGAC
 182161 TTTGGGTAAG TGGTGGAGTC CCCGGGTAAA GGATAGGATT GGGTTAGAGG TGCAACTTAG
 182221 GGGAGATAGG GTCTCTCCTA AGACAGAGAG CGTTTCAGTC CGCTCTTAAT AAAGGGCAAG
 182281 AATGCTTGAC CGAAGTTGGG TTTGAGACCC AACTTAGGAA GGCTACAGTC CTTAAGATTT
 182341 AAGGGGTTAG AGGCCCTCT CTGCTATTCT GTTTGTATTA ATCTTCCCTG TGCTCTTTGC TGACAGCTAT
 182401 GGGATGTTAA CTGCTATTCT GTTTGTATTA ATCTTCCCTG TGCTCTTTGC TGACAGCTAT
 182461 GGGTGCAGAG ATTAGGCATG TACAGGATCA CGGGACATTG GGAACTTTTT TCTCTCCAA
 182521 AAGGGGAAGC TTGACAGCTG ATAGGACTGT TGGAAAAGAT CCCTTTGCTA TGACAAGCAG
 182581 CCGCCTGAAC TTTTGATTCA GTGTTGCTGC AATGGGTGGG TCTTTCTCTG GCCTCTGTGA
 182641 ACTCCTCACC TTCCCACCT CACCACAGGC AATGCTTTTC TCCCTTCTC TCTTTCTCT
 182701 TTTCTGTCTT TTCTGTTACT TGAGACAACC ATCTTGCCCA GAGACCATAT GTTGAAACTC
 182761 CTGGTCAGAA GTTTGATTAA AGATGAAAGG GCCTATCTGG GGGCAAGTTT GAGCCTTCCC
 182821 AGTTAGATAT TGGGTGCTAA GTGGAGTGGC CAATGTCTAT GTTTGTGAC ATGTATATTG
 182881 CTCTGGCTGA AATGGAAAAC GTTAATTTGG TTACTTTATG TGGCCATTGG GCAGCATCTT
 182941 ACAAAGTGA GAGACATTTA TTTGCTGTG GTTCCATGAA ACAGAAAAAA GTTGGTTTTC
 183001 CTTTGTGTCG TAGCTTGGAC CCAAGGGCTT TGCAGTGAGC AAGGTGTGTA GCGCTGCTCA
 183061 GTGAAAGAGA ACCCAGAAAC CTGGCATGCC AGCAAAAGGG TAAAGATTTT TTACCAGTCA
 183121 GGCTTCTGGC CTCTCTCTCT TAGTGA AAC TGAATGAATG GTAAAAATCA CTGTTTATCA
 183181 CCTCTGTAAG GTTTTGATTA ATGGGAACAA GGATTTGTGG GGCTAGTCTT AAGCTGTAAT
 183241 GAATCTGGTA TACTTTGTGA TATCAATTTG TCTTTCTGTA TTACTCTGTC ATAAAGAGGA
 183301 ATATGGTAGG ATAGAACATG GGCTTAGGAC TCCATAAGCC TGCTGTTCAG GCCAGCCAG
 183361 TAACTGGTC CGTTGCAAAG TTTATTACAG GTCCTGGAA AAAAAAAAAA TAAAAACTG
 183421 GATGAAGTTT CTTTCTCATC TTGTTTATG TCCCTTGGAG CTTCACCTTG TAACCACGTG
 183481 GCGGTACTTT CTCTTGGTCT CTGCCATCCA GGGAACAGGA ATTTTGGGGT TTATGTAATA
 183541 GTTAACTCTA AAAATTATCT CAAGCCATTG CAAGCTCAA ATTGGCTGCT CTGGACCCCT
 183601 TCTGGGAAGG GCAATGGAAA CTAACCAAGT TTGTAGCTCA GCAGCTAAGG ATTTGTCAAT
 183661 TTATAATGGC GGCCAAGGTT CAATCCTGGC TTAGGGAATG AGTACTTTCT GATTGATATC
 183721 TGTGTGACCT TTACCATTG TTGATTCTGT TCTCTTCCCC TCCACACACT GTCTTGAGTT
 183781 TTCTCTCTC TGAGAACCTG GGAGATTATC TTTGGTAAAG TTCAAAAGCC AGAAATAATG
 183841 GCCGTGTGGG ATGGCTAAAG TTGAGTAATA AGAACTTAA AAGGACTCCT TTTTTTTTTG
 183901 CTTTAGAGTG CTATGGTTTA TGGTTAAAAG CTTAATTAAA AGTGGATATT CAATCTCTAA
 183961 AAGCCTGGGA CTCCTTGGGA AAAGCAGAGG AGGCACCACA GACCCCATTT TGGGAAAACC
 184021 TCTGTTTTTC TCATGAAACC CCAGGAAGTG GAAGTGGATA GATCCTTCGC AAAATCTAAG
 184081 GCTCTGTTTG GCTTTGCATT ATGTTATCTG ATGTTTTTGA CTTTGGGGG TATCAGAAAT
 184141 TACTTTGCAT TATGAGGGAG ATCTGGTGTG TAATAACCAG GTAGGAAATA TACTTCTGGG
 184201 GATAGCTAAA GGCAAATATA GGTGAATACT TGGCTATTTG CACTTTTGGG TCACAAGAAG
 184261 CATTCTCTTG ACTACCTAGA AGGTATGGAA ATGTCTCCAT CCCCACCGAG AGATAAGATT
 184321 CCCAGGGGAG ATGGCTGATC CCCCAAAAGA GGGCTGATTG CGCCTGTAAT CTCAACACTT
 184381 CTGGTATAAA AATGGGACCC TGGCCAGGCA CAGTGGCTCA CATCTGACA CTTTGTGACT GAGCTCCTCT
 184441 TGGGAAGCCT CAGAGTTATG AATGTCTCAC CATCTGACA CTTTGTGACT GAGCTCCTCT
 184501 CTACCCTGGA CACAAGAGAC CCTAATAATT AGACAGGAAT ATCATTGCCC CTATTTAGTC
 184561 TGAAGAAGTT ATAGAAGATG GATCTTTATC CCACTGCAAT CCTTAGGATT AAGGGTTCCC
 184621 TGGTAAAAGG GAGTGGGAAA ATATGTCAGA GGCATTTGAA TCAGAGTGAC TCCATCTTGA

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184681 ATAGGGGCTG GGTAAAATAA GGCTGAGGCC TGCTGGGTTA GGTTAGGCAT TCTAACCAGG
184741 AGTTTAGTCA CAGGATGAGA TAGAAGGTTG CACAAGGTAC CCGTCACAAA GACCTTGCTG
184801 ATAAAATAGG TAACGGTAAA GAAGCCAGCT AAAGCCCACC AAAACCAACA TGGCCACAAA
184861 AGTGACCTCT TGTTCATCCTC ACTGCTCATA TACACTAATT ATACTGCATT AGCATGCTAC
184921 AAGACACTCC CACCAGTGCC ACGACAGTTT ACAAATACCA TGACAACATC TGGACGTTAC
184981 CTTATATGGT CTA AACCGG GAAGAACCCT TAGTTCTGGG AATTGTCCAC CTCCTTCTCTG
185041 AAAAATTCTT GAATAATCCA TTAGTTTAGC ACATAATCCA GAAATAACTA TACGTCTGCT
185101 TATTTGAGCA GTCCATACTG CTGCTCTGCC TATGGAGTAG CCATTCTTTT CTTTTATTTT
185161 TATTTTGTAG ATAAAGACTC GCTCTGTCAC TCAGGCTGGA GTCTGGAGTG CAGTGACGTG
185221 TTTTGGCTCA CTGCAACCTT CACCTCCCGG GTTCAAGCAA TTCTCCTGCC TCAGCCTCCC
185281 AACTAGCTGG GACCACAGGT GGGTGCCACC ATGCCTGGCT AATTTTTGTA TTATTAGTAG
185341 AGATGGGGTT TCGCCATGTT GGCCAGGCTG GTCTCGAACT CCTGGCCTCA AGCGATCCAC
185401 TTGCCTTGGC CTCCCAAAGT GCTAAGATTA CAGGCATTAC CCACTATGCA TGACCCATTC
185461 TTTTATTTCT TAACTTTTTT TTGTTTTTTT GAGACAGAGT CTCACTCTGT CACCCAGGCT
185521 AGAGGCTGGA GTGCAGTGGT GCGATCTTGG TTCACTGCAA CCTCTGCCTC CTGGGTTCAA
185581 GCGATTCTTC TGCCTCAGTC TCCTGAGGAG CTGGGACTAC AGACATGTGC CACTACACCC
185641 AGCTAATTTT GTATTTTGTAG TAGAGACAGT GTCTTGCCAT GTTTGTGAGG CTTGTCTCGA
185701 ACTCCTAACC TCAAGTGGTC TGCTGCTC AGCCTCCCAA AGTGCTGTGA TTACAGGCAT
185761 AATCACTGCT GCTCGGCCCT TCTTTACTTT CTTAATAAAC TTGTTTTTTC TTTACTGTAT
185821 GGACTAGCCC CAAATTCTTT CTTGTGTGAG TTCCAATAAC CCTTTTGTGT GTGAAAGAAT
185881 TTATGGCTGC TGTTCAGGCT GGAGCAAGCT GGAGCTCATG CTGCTGCTCA GACTGGAGCA
185941 TGCGTGATCT GTGATCCCAG TAAGAGGATC ATGGTCACTC CAGCCTGAAC GACAGCATGA
186001 TATCTCATCT GTAAGAAAAA AAAAATTACT AGAGGGCTTT AACAGCAAA TTAGCAGCA
186061 AAAAGAAGTA ATCAGTGAAC TCAAAGATAG GTCAATTGAA ATGATCTACT CTGAAAAACA
186121 GAAAGAAGAC AGAATGAAGA AAAAGAAATG GAGCCTTAGA GACAGGGGAT ACCATCAAGC
186181 AACTAATAT ATGCATAATG GAGCTCCTAG AAGGAGAAAA GTGAGAGGAC AGGGAGAGAG
186241 ATATGTTTGA GAAATAATTT CTCAAAGCTT CCAATGTTTG GCAAAAAAAC ATTAATTGTC
186301 ATACATATTT TAGGAGCTCA ATGAATTCCA AGTAGGATAC ACTCAAAGAG ATCCATACCT
186361 AGACACATCA TAATCAGATT ATCAAAGAT GAAGAAGATG AATCTTGAGA GCAGAAAGAA
186421 AGGAACAATT CATCACATAC AAATAGTACT CAAAAGATGT CTGGAGTAGG TATACTAATA
186481 TCAGACAAAA TAAACTTTAA GATAAGCATT GTTATAATAA ATAAAGAAAG GTATTTTGTA
186541 ATGATAAAAG TGTCAATTCA TCAAGAAAAA ATAACATTAT AACATACAT GCACCTAACA
186601 ACAGAGCCCT AATATTCATG AAACAAAAT GACAGAATTG AAGGGAGAAA TAGAAAATTC
186661 GACAATAATA GTTGAGAGCA TCAATACCTC ACTAGTTAGA CAAGATCAAC AAAAAAATAG
186721 AAGACTTAAC ACTTGAAAAC ACCTAACCTG ACCCTAACAT AAATCTATAG GTCCTACAC
186781 CCCAAAACAG CAGAATAAAC ATCCTTCTGA AGCTCACATG AAACATTTTT CAGGATAGAC
186841 TGTATATTAC TTCATGAAAT AAGTCTCAAT AAATGTAAAA GGACTATAAT AATAGAGTAT
186901 ATATTCTCTG ACCAAAGTGG AATGAAGATA GAAATCAATA ACTAGGCTGG GCGTGATGGC
186961 TCACGCCTGT AATCCAGCA CTTTGGGAGG CCAAGGCGGA CAGATCACGA GGTCAGGAGT
187021 TTGAGACCAG CCTGACCAAC ATGGTGAAAC CCTGTCTCTA CTAACAAAAT ACAAATAA
187081 GCCAGGCCTG GTGGCATCTG CCTGTAGTCC CAGCTACTCG GGACACTGAG GCAGGAGAAT
187141 CACTTGAACC CAGGAGGCAG AGATTGCAAT GAGCTGAGAT CGCGCCACTG CATTCAGGCC
187201 TGGGAGACAG AGCGAGACTC CATCTCAAAA TTAATAAAAA AAAAGAAACT AGAAAAATAA
187261 GAACAAATCA AACCCAAAGC AAGCAAGAGG AAAATGAAAA ATTTCAAAGC AGCCAAGAAC
187321 AAAAGGCACA TTATGTACAG AAGAACAAGT GTATAGATCA CATATTTCTC ATAGACACAA
187381 TATAAGCAAA AAGACAGTGG AGCAAAATTT TTTAGATTAA TGAAAGACCT ACAATTCTGT
187441 ACCAAGCAAA AAAACTCCCC CCAATGAGG GTGAAATAAG ACAATTTAAT ACAGAGAAAA
187501 GAGGAAGGAA TTTATCTAGT CATATGTGAG AGTTTTATGA TACATTTTGT ACTGTATATG
187561 TGGATGTTTT CTATTTTCAAT TAAAAATCA ACCGTGCAAT TAAATGGTAG ATTGTCTTGC
187621 TTCTTTTTGA TTGACACAGT CATTAACTAA AATATTGTAG TATTTTTTTA TCTCCCTGCC
187681 TAAAGGCAAT AAACATCTAA TCAGCAGACT AGAACAATAA AAAATATTTT TTAAAAAGTCC
187741 TTTAGGCAGA ATGATAAAAG TCCCTTAGGC ATATTGAAAT TCCTATTTAT ACAAAGGAAT
187801 AACAGTACT AGAAATTGTA ACTATGTGAG TAAACAGATA ATATTTTTTC TCCATAAAAT
187861 GTGGTTGACT ATTTTCACAA AAATAGTTAA CAATGTAATG TGTGATTTAT AGCATTTTAA

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187921 AGTAAACAG GCCGGGCACA AAGGTTTCGT CCTGTAATCC CAGCACTTTT GGAGGCCGAG
187981 GCGTGCAGAT CACTTGAGGA CAGGAGTTCA AGACCAGCCT GGCTAACATG GCAAAACCCC
188041 ATCTCTACTA AAAATACAAA AATTAACCAG GCGTGGTGGT GCACGCCTGT AATCCCAGCT
188101 ACTCTGGAGG CTGAGGCACA AGAATCACTT GAATCCAGGA GGTGGAGGTT GCAGTGAGGC
188161 AAAATTATAC CACTGTGCTC CAGCCTAGGC AACAGAGCTA GACTCTGTCA CACACACACA
188221 CACACACAAA AGAAAAGTGT ATGACAACAA CAGTGCAAAA GAAGCGGAAA TGAATAATAT
188281 GTTATTTTAT ATAAGTGGA TACTTTTAGA TGAACACGA TAAATTAATG ATGTATACTA
188341 TAACTCTAA GGCAACCACT GAAATAATGA AACGAAGAAT TATGGCTAAC AAGCCACAAA
188401 AAGAAATAAA ATAGAATGAG AAAAAATATT TAAGTTGTTT AACAGATGGG AAAAAAAGA
188461 GGAAAAAGAG AACAAAGAAC AGATGGGACA AATGGGAAAG TAATAGCAAG ATGATAGACT
188521 TAACTCTACC CATATAGATT ATCACACTTA AGGTAAATGA TCTAAATACT CTAATACAAA
188581 AGCAGAGGTT GTCAGATTGA ATTAACAAAA CAGACAACAA CAAAAAAG CAAAAAAGA
188641 GCCACAACAT GCTGCCTACA AAAAATTCAC TTTAATATAA AGACACAAAT AGTCTAGAAC
188701 ACCATCACTT TTAACCTTAT TTACTCAAAC CTCCTAACTG ATCCCTATTT ATTTATTTAT
188761 TTATTTATTT ATTTATTTAT TTATTTTGA GACAGAGTCT GACTCTGTTG CCCAGGCTGG
188821 AGTGCAGTGG CACCATCTAG GCTCACTGCA AGCTGGGACT ATAGCACATG CCACCATGCC CAGCTAATTA
188881 CTGCCCTCAG CCTCCCAAGT AGCTGGGACT ATAGCACATG CCACCATGCC CAGCTAATTA
188941 TTATATTTT AGTAGAGACG GGGTTTTGCC ATGTAGGCCA GGTGGTCTC AAACGCCTGA
189001 CCTCAGCTC CCAAAGTGCT GGGATTACAG GCGTGAGCCA CAGCACCCAG CTCCTCTTCA
189061 TTTATCTTG CTACGCTTCC TCCAATCCAT TTTGTGCATT TGATGATTTT GCCAGTAACT
189121 TCTTTATTT TCTGGTAAAA TTACTTATGG GTCAGTGGG ACTGGGATGT TCTTTCTTCT
189181 AGAGGGGGTT TGTGTCTGCT TTTGCCAGGA AGCTGGGGTA CCACCATGCA AGTATTACTT
189241 TAACTCAAT TCATGAATTG AGACTTTTTT TTTTTTTTTT TTTTTTACGC AGAGTCTTAC
189301 TCTGTCACCC AGGCTGGAGT GCAGCGGTGT GAACATGGCT CACTGCAGCC TCAACCTACT
189361 GAGCTCAAGC AATCCTTCTG CCTCACCATT CTGTATAGCT AGGACTACAG GTGTGTGCCA
189421 CCATGCCTGA CTAATTTTTT AAATGTTTTT TTTAGAGATG GGGCTCACTT TGTGCCCCAG
189481 GCCGGTCTCG AGCTCCTGGG CTCAAGTGAT CCTCCACCT TGGTCTCCCA AAGTGCTGGG
189541 GTTACAGGCA TGAGCCTCTG TGGCTAGCCA AGACTTTTTT TTTTTTAGCC TAAATGTGTA
189601 TAAAAGTTGG CTTGTGGTTA CAACTTATCA GGATTGATGA TCTCTCTCTC TCTCTCTCTC
189661 TCTGTCTCTC CCCACCTCTC TCACATCCCT TGCTCTGCTG AGAAGCAGAG CAAACATTCT
189721 AGCAGTTTCC AGAGAGTAGG ATGGGATTAC TTCTAGTTTA CTTTTATCAT CTTTGGGAT
189781 CGCAGTATTA CTGGGAGAAC ACAAGTATCT CTTATTAGAC ATACCACCTT TGTAGAATCT
189841 GGACTTTCAT TTTAGACTTT ATTTGTTTTT TACTATAAGC AATTTAAGTT ACAGATCTCT
189901 CTACACACTG TTTAAGTTGC ATCCCATGAA TTTGATGTG CTTTATTGTC ATTATTATAT
189961 AGTACAATGT ATTTTGTAAT TTTTGTGAT TTGTTGGAG AGATTGATTA ATTAGAATGA
190021 TGTTTAATTT CCAAATATGT GTTTTTTTTT CCTACATTTT TTTATTTTAT TGATTTCAAA
190081 TTTATTTCTA CTGTAGTCAG ATTTAATAAT TCATTTATTT TTATTATTTT CATTTTTTTA
190141 GAGACAGGGC CTTTCTGTGT TGCCAGGTT TGTCCCAAAC TCCTAGTCCC AAGCAGTTCT
190201 CCTGCCTCAG CCACCCAAAG TGCTGGGATT ATAGGCACGA GCCACCCGTG CACAACCAAC
190261 AATTCAATTA AAAAGTGGG AAGTGAACG AACAGACATT TCTCAAAAGA AGGCATACAA
190321 TTGGCCAACA AATATATGAA AGAATGCTCA ACATCACTGT ATTAGTCTGT TTTTATGCTG
190381 CTAATAAAGA CTTAACCTGA GACTGGGGA TTTACAAGAG AAAGAGGTTT AATGGACTTA
190441 CAGTTCCACA TGGCTGGAGA GATCTCACA AGGCAAAGAG AGAGCTTGTG CAGGGAAGT CCCGTTTTTA
190501 CATCTTACAT GGATGGCAGC AGGCAAAGAG AGAGCTTGTG CAGGGAAGT CCCGTTTTTA
190561 AAACCATCAG ATCTCGTGAG ACTCATTCAC TATCATAAGA ACAGCATAGG AAAGACCCGG
190621 CCCATAATTC AGTCACCTCC CACTGGGTTT CTCCCAGGAC ACATGGGAAT TGTGGGAGTT
190681 ACAATTCAAG ATGAGATTG GGTAGGGACA CAGCCAAACC ATATAAATAA CTAATCATCA
190741 GGGAAATGCA AATCAAAACC ACAATAAGGT ATCATCTCAC CCCAGTTAGA ATGGCTATTG
190801 TCAAAAAAAC AAAAAATAAC AAATGCTGGT GAGGATGTAC AGAAGAGGGG ACTCTTATAT
190861 CCTACTGGTG GAAATGTCAA TTAGCATAGC CATTATGCAA AATAGTATGG AAGTGAGGTA
190921 GGTTACATAG GGTGGTCACA GCCTCCCTTG ATTACACAAA CTGCATCTGG GGCTAGTGGT TAGAATATCC
190981 GAGAGAACAA ATCTCTTGAC ATTACACAAA CTGCATCTGG GGCTAGTGGT TAGAATATCC
191041 TCAGTCAAGG AGGTAGAAGA GCAGGAGGGA AAATCCCTAA GTTCGTGCAA GTGCAGAAAC
191101 CCACAAGCTG TGTTCTCAGG TTGACATATA CTCATTTTAA TAGTAAGAAA CACACCCCTG

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191161 GGTAGAGAAT TAAATGCTA ATAATACATG TGATGTATGT ACTAGCGTGT ATGGCAATAT
191221 TGCATGCACA TTCAAGAGAC CACCCAAAAC ATATTTAACA ACAATGCCCA TTCCCACCCC
191281 CTCATGGATA ATCACGTAGG ACTCCCATAA CGGGAGTTTC TTCAGTGTCA ATTGGTGCTG
191341 AAGTAGCCGA CCCTGACTCT GCTATCAGCG TGTACTTTCA CCTTGCAATA AACTCCTTTG
191401 CCTACTTTTA CTTTGGACTG GCTTTCAAAT TCTTTGTGC AGGGAATTCA AGAATCTGAA
191461 CCAGCCCACT GACAACAGAG GTTTCCTAGA AACCTAAAAA TAGATCTACC AGATGAGGCT
191521 GAAAACTGTC TACTGGCTAT TTATCCAAAG GGAAGGAAAT CAGTATACAA AGAGACACCT
191581 ACATCCCCAT GTTTATTGCG TCACTCTTCA CAAGAGCTGA TATATAGAGT CAACCCTAAA
191641 TGTTCAATTAA CAGACAAATG GATAGAAAAT GTGGCATATA TACACAATGA AATACTATT
191701 GGCCATGAGA AGAATGCAAT CTTGTCAATT GTGGCAACGT AGATGAAACT GGAGAACATT
191761 ATGTTAAGTA AGATAAGCTA GGATTGGAAA GATAAATACT ACATGTTATC ACTCATATGT
191821 GAAAGTAGAG AAAAATTTTT AGCTCATGGA TTTAGAGAAC AGAACTGTGG GTACCGGAAG
191881 CTGGGAAGGG TAGCAAGGAG GGGAGGATAG GGAGAGGTTG GTTAATGGTG ACAAATTAC
191941 AGCTAGATTG TAGAAATGAG TTCCGGTGTT CTGCACCATT GTAGGGTGCA TATGGTTAAC
192001 TCTCATTTAT TGTATATTTT CAAAAAGCTA GAAAAGAAAT TTGAATACTC ACAACAAAAT
192061 AAATGATAAA TGTTTAAGGT GATGGATATA CTAATTACTC TGATTTGATT ATTACACATT
192121 GTGTACACAT ATAAAAATAT CACTTTTAT CCCGTATATA TGTACAGTTA TTATATGTCA
192181 ACTAAAAATA AAAGAAAAAA AGAATATGAT CTATCATGAT GTATATATCA TGTGTACTTG
192241 AGCAAAATGT GCATGCAGAT ATTGTGTATA ATGTTCTATA AATCAATTAG CTCAAGATAA
192301 TAGATAGGAT TGTTCAAGATC TTCTGTGTCT TTACTGATAT TTTGTCTAGT TATTGCATCA
192361 TTACCAAAAA AAGGGTGTTA AACTCTCCAA ATGTGATTGT AGAATTGTCT ATTTGTCTT
192421 TTCTTTTCCA TTTTACTTTT ATGTATTTTG AAACCTGTGT ATGACATTTT GCTATGTATT
192481 TTAAACCTTC GTTATGTATT TTGAACTCT GTTGTTAGAA TCATACATTT ATGATTATTA
192541 TGTTTTCTTG ATGAAATGAC CCTTTCTAT TGTCGTTGTT TTTGTTTTTT CTGAAATGGA
192601 GTCTCACTCT GTTGCCAGG CTGGAGTACA GTGGCACAAT CTTGGTTCAC TGCAACCTCC
192661 ACCTCCTGGG TTCAAGCAGG TCTCTGACT CAGCCTCCAA GTAGCTGGGA TTACAGGCAT
192721 GTGCCAGCAT GCCAACTAA TTTTGTATTT TTATTAGAGA CAGAGTTTCA CCACGTTGGC
192781 CAGGCTGGTC TCGAACCTCT GACCTCAGGT GATCCGCCCC CCTCGGCATT TTTATTTTAT
192841 TTTATTTTTT TGAGACAGAG TCTCACTCTG TCACCCAGGG TAGAATGCGG TGGTGTGATC
192901 TTGGCTCACT GCAACCTCCG CCTCCTGGGT TCAAGCAATT CCCATGCCTC AGCCTCCCGA
192961 GTAGCTGGGA TTACAGGCAC ATGCCACCAT GACTGGCTAA TTTTGTATT TTTAGTAGAG
193021 ATGGGGTTTT TCTATGTTGG CCAGGCTGGC AACTGACTCC TTTAACAATA CAAAATATCA
193081 CTCTGTCTCT GGTAACACTC TCTGTCTTAA ACTCTATTTT AGCTGTTATT ATTATAGCCA
193141 TTTTAGTCTT TTTATGCTTT CTGTTTGAT AGTGTATATA TTTTAATATG TTTATTCTCA
193201 AGTTATCTGT GTTTTATAT TTAAGATGTT TCTCTTCTAG CCAACGTGTT TGGTCTTGC
193261 ATTTTAAAGT CGATTCTAAC AATCTTTGCC TTTCAATTGA AATATTTACA CCATTAACAT
193321 CTAACATTAA CATTTATTTT TCTTCCACA GTACACTGGC TAGCATCTCC CATATAATAT
193381 TGAACATAAA GTGTGATAAC TGACATCCTT ATTTCAATCC TACTCTGAGT GGAAAGGGCA
193441 GGGGTGGAGA AAGCATTCAA CAATTTGCCA TAATTATAAT TCTTTTGTGTT AACTGTTTTT
193501 CTTCTGCATT AAAAAATATC ATTACATTTT GCATGAATTA TTAGGAGAAA ATATTTTCCA
193561 ATTTTCTCTG AAAATGCCAT AACCACGTCT CTCAATTTTG TTTCCATCTT TCTTCCACAT
193621 TTTACATAAC CTACATAAGA GACACATTAT CAAGTATATT TTACATGGCT TCTCAGTGTC
193681 TTCTCTGTCT GCTAACAGGT TTACCAAGAG ATGGCACTCT TGTATTTCTG GTGGCTATGT
193741 CCATATCGTT TTGCCTTTAA GACAGCGTAA CTACTTCTTT CACCAGTATT AAAGACATGT
193801 ACATTTGATC TGGTCTTGT GGTGATTTT AAATGACTCA AGCTAATAAT CCTAATTTTA
193861 CCTAAACACT CCATTATTTT AAAATGTATT CTTTATGCT CACAATAAAC ATTTATTGAC
193921 ATTAGGCTGG ACATTAGGCT TCTCTATGGC AGACATTAGG CTGGACCCTA GCCATATATC
193981 TATTGAGGGA AAAAAATTA TTTTCTATAT AAGTTTCCAG AAAGCCAAGA TGTGTTTTAA
194041 AAACAAAACA AAACATTACA TTCTAAATGC TGTAACAAGA TAAGAAAAAG TGTGAGGCT
194101 GAGAGAAGAA CAAAGCAGCA AGCAACTCCT GGAAGGACCA CTGCTGCAGA GGTAAATAACT
194161 GGTGAACCAT GTTTTGAGGA AGGAAAAGGT CACCAAGAGA AGGAGGGGGT CCAGGGTGTT
194221 CAGAAAGATT GCATGCATAA AGATCAAGGG TAATAAAAAA AATCCGTAT TATGTAAATG
194281 TGAAGTTCCA GGACCATGAG CTTGGAGAGC ATGAAGTACA GGAGGAGGGT TGGTTTCAA
194341 TAAATCTGGG AATGAAACAG TGAAGCCTCT GGCAGAACTC ACATCTCTTT CCTCCCTCT

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194401 TCCTTGACACA TTCCCTTTAT GGAGTAATTG CAGGGATGGG AAAAGTTCAA AACCACCACT
 194461 GAGCCTAGGA AGTGCTAGGG TAAAGTGGAG AATGAACCTG CGTGATTGTC TCATCCTAAA
 194521 CTAGGTTCTT CTAGGAGAGC CCTTCCCAT AAAATCTGCC CTCCTCGAAG GGGCCCAGAC
 194581 AGCCTAAGCT CACCTCCCAA AGACCCCTTA CTTGCTGACT GAATCTGATT CCACCCAGAC
 194641 ATGGCCTAAA ACCCTTCCAT AACTCTATAG CCAAATTCAA TTTTAGACAG GCCTCATACC
 194701 AACCTTTCTT CCTCTAAGTC TGCCACCCTA GGCAATTCTC AACATTCTCT ACACACTTGT
 194761 GGGCCATAGA CGTGCTACCA AGTCTCCAGA CCTAGACCTG ATGGAGCAGT GCTGTAATGA
 194821 GACGACCACT GGCCTTTGAA CCAGACCCTT CTCTGTGGCT CCTATGCATC TCCAACCTGT
 194881 TTTGAGCACT GCTGCCAAGA CATCTTTGGC ACTTTGTGTG GAAGTTTAA AACTGAACTA
 194941 ATCTACAAA CACCTAACCT TTAATAATTG ATTGTCAATT CATATCATGA AAGATAAAGA
 195001 AAGGCCAGGA AACTGTTCCA GGTAAATAGA GACTAAAGAG ATAGCAACCA AATGCAATT
 195061 GTGATCCTGG ATTGAGGGGA AAAAGTGTG TCAGAGACAT GATTGGGACA GTGGTAAAA
 195121 TTTGAATTTG AATTTAAAGA TAAAGTATTG AGTAATATAG GAAGATGATT ATCTGCAACT
 195181 TTCAAATGTT TCAGTAAGTA TATATATATA TAAAGAGATA TAAAGACATA TAAATAAATA
 195241 GATGGATAGG TAGAGAAAAA GCAAATGTAT AATATTAACA ATCTAGGTAA AAAGTATATG
 195301 AGTGTCTTTT GACTGTGTTT TCTGATTTT CTATATGTTT GAAATCATTT TAAATAAAGA
 195361 AGGTTTTTGG GGTTTTTTTG TTTGTTTTTT GTTTTTAGAG ACAGCATCTT ATTCTGTCAC
 195421 CCAGGCTGTA GCTCAGTGGC CCAATCATTG CTCACTGCAG CCTCAACTTC CTGGGCTCCA
 195481 GTAATCCCC CTACCTCAGG CTCATGAGTA GCTGGTACTT CAGGTGTGCA CCACTGCCT
 195541 CAGCTAATTT TTATTTTTTA AATTTTTGTA GAGATGGCAT GTTGCTATGT CACCCAGCT
 195601 AGTCTCAAAC TCCTGCCCCC AAGTGATCCT CCCACTTTGG CCTCCCAAAG TGCTAGAATT
 195661 ATAGGCATGA GCCACTGCAC CCAGCCCCAA ATAAAAAAGT ATTTTATTTT AATTAATAA
 195721 TTAATTTTGA GTCAGAGTTT CACCTTTGTC ACCCAGGCTG GAGTGCAATG GCATGATGTT
 195781 GGCTCAGTGC AAACCTCGCC TCCTGTGTTT AAGCGATTCT CTGCGCTCAG ACTCCTGAGT
 195841 AGCTGAGATT ACAGGTGCCT GCCACCATGC CCAGCTAATT TTTATATTTT TAGTAGAGAC
 195901 GGGGTTTCAG CATGTTGGTC AAGCTTGTCT CAAACTCCTG ACCTCAGGTG ATCCACCCAC
 195961 CTCGGCCTCC GAAAGTGTG ATGAGCCACC ACACCCGGTC TAAAAAGTAT TTTAAACCA
 196021 CAGTCCCACT CTACCTTGTC CTACACTACC AGGGGCTAGG ATCACCCTAT GTCTTCTAGG
 196081 CTATGAGATA GAGGAATCCA AGGAAGAAGA TAAGCTACTT GGTTCTCTA TAGGGTCTG
 196141 TGTGTGCTCT CATGTGCTCT CTCTCTCTCT CTCTCTCTCA CACACACACA CACACACACA
 196201 CACACACACA CACACACATG AATACCAGAG CTATCACTTT CCCAGTCTAG TACTCATCTC
 196261 ATCCCAAGGG TTTTGTGTTG TAGTGTTTGT CTCTATTGTT TGTTTTGTTT GTTTGCTTGG
 196321 ATTATCTTTT TTCTCTTTT GCAGCTGAAG GGAGAATTTT CAGGCCAGCC CTTTGGCCAT
 196381 TAGAGTTACA GTGCCCTCTAT TCAGGCTTCA TAGAGAGACC TGGGATTGAG TAGTGGGGGG
 196441 CTTTTATCCA GTTCAAATA ATGCATTCTC ACCAAGATGT ACTTTGAAAT AAAACAATAC
 196501 TAAACACAA AATTTTATTT ATGCTGAACA TTGAATCACT TTTTCTGTA TTTTGTGTAG
 196561 AAAGTTATAC ACACACAAAC ACATTTGCTC CTGCTTTGTT TATTGGCCCA GGGGTATGTT
 196621 TGGTAATACT TCATCAGGCA TGAGTAGTAC GTCTTGGAAG GTGTGGTCTA AAGCCTAGAC
 196681 TCCTATCTGC TTCCTTCAGC ATTCTCCAGT GTATCTGTCA TCTGTCTACC TTAGGATGGG
 196741 GTCTCCAGAA CTTCCATTCA CATTTAGAAC AGGGCAGCGG CTTTCTATGG AAAATATGAA
 196801 CTCTCATTCA TCTCTATTCC TTCTTCTAGC TATGGTCCAG CTCAGCTGTT TGGAATAAAG
 196861 TATCTATATG AAGTCTGCGA ATGGTTCTCA GACTGGTTGA ACATTAGAAT CACCTGAGTA
 196921 CCTTCTAAAA TTCTTATTAC CCAGGGCATA TCTCAGAATG AGTACCACAG GGTAGGGATA
 196981 GGATTAGGGA TCATGATCTC TGGAGTCTGG TTTAGGCACT AGTGCTGTTT AAAACTACGT
 197041 TCATGAGGTG GAGGTTGCAG TGAGCCGAGA TGGCGCCACT GCACTCCAAC CTGGGCGACA
 197101 GAGTGAGAGT CTGTCTCAAC AACACAAAC AAAAAAACC AACTACCCTT GTGATTTGAA
 197161 TGTCCATCCA AAATTGAGAA CCATTAGGTA AGGCCAAGCT GTATAATTAA AGAGCAGTTT
 197221 TCATTTGTCT GGTGTGGTGG CAGCTTTTGT ATAAGGGAAG TATTGTTGCC ATCCACATAC
 197281 CTGAGCCTCA CTCCTGAGAA CACTGGTGTG TATGTTGCTA AAATTCCCCA GGTGATTCTG
 197341 AGGTTCCCTC CTGGATAAAA ACCACTGACC CTGGGAATGT ACCCACTGCC AATCTCCTGC
 197401 GTAAACCTTG GATACTGGGA AGCCTACAGT TGAAAATATT GGGCTTGAGA TCCTGAAACA
 197461 AATCTTGAT TTTTATGAAG CTAATATTTG GTACAGTGCA GCAAATCAAG GGAATTTTGG
 197521 TGGCTGAGTT CTTTATGAAC TTTTGCATTG AAATAGGTTT AAGCAGCAAT AAGTTAAAC
 197581 TACAACCTCA GCTAAAGGAT TAAAGACAC GTGAGCTGGG TAGGATGAGG TCTAAGATTG

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197641 GGTGTGGCGG CTCATACCTG TAATCCCAGC ACTTTGGGAG ACTGAGGTGG GTGGATCACT
197701 TGAGGTCAGG AGTTCAAAAC CAGCCTGGCC AACATGGTGA AAACCCATCT CTACTAAGAA
197761 TACAAAAAAA TTAGCTGGGC GAGGTGCCAG GCACCTGTAA TCCCAGCTAC TGGGGAGGCT
197821 GAGGGAGGAC AATCACTTGA ACTCAGGAGG CAGAGGTTGT AGTGAGCTGA GATCGCACCA
197881 CTGCACTCCA GCCTGGGTGA CAGAGCAAGA CTCCATTAA AAAAATAATA ATAATAATAA
197941 CAATAATAAT AATTCAGACA TATCCAGGCA TCAACAGAT ACCTGGGGCA GATGAATAGT
198001 CTTGAGATTG AAGTCACACA TGAAATTTAG GTGGAAAATG ACATTGGAGA AATTTGAGAT
198061 TATGATGAAT GGAAATTTTT CAAAGAGGAA TTTCAGGCTC TGTTCCTGAG GGGATAGATG
198121 GACTTCCAAC AGCAATAACA CAGGATTAAT GAGGACTTGG GATGTTACAT AAATTAGAGA
198181 TGTTAGATGG ATAAAGAGAT AAAAGTACTC TCTCTAAGAA CATGGGACCA GAGATAGGCT
198241 CACTTCTAAC CATCAGATAT AACTAGCAGA CTAAACGGTC TAAAAATAAA AATCATGCCC
198301 CACTCCTGCT TAAGACATTT TAATTACTCT CAGTAACTCT TCAGTTTTTC TACTGTGTTA
198361 TCTTTAACTA CAGGGTTGGT CTGGGTGTGC AACACAAGAA AGCCTGGCAT ATACATGGAT
198421 TCAAGTGAT GCCATGTACA GGTATTCTTT CATGTACTAT TTCATGTATT CTTTTTCACA
198481 TCTGTTTTTT CCTTCATTGA AGTCAATGGC TGATATTAGA TTCTACTATT CATGTGTACT
198541 AGTTATATAT AATTGTTACA AAACAAATTA GCAAAACTT AGTGGCTTAA AGCAACACAC
198601 ATTTATTATT ACCTAAGGTC TGTGGATAGA AGTTCGACA TGGCTTAACT GGGTTCCTTG
198661 CTTCAAGCCT CATGTGGCTG CAATCCAGGT GTTGGCTGAG TCTGAATTCT CATCAGAGGC
198721 TTGATTGTGG AAATTTCCAC TTCCAAGCTC CCTCAGGTTT GTTGAAAAAT TCAGTTCCTT
198781 GCACCGGTAG AAGCTTCTTG GTAGAGGCTG ATTCAACTTC TAGAGGCTGT CTGCAGTTCC
198841 TGTACCCAG GGTGGAGTGC AGTGGAGCAA TCATAGCTCA CTGCAGCCTT GACCTCCAG
198901 AATCAATCTG TTCTCCACC TCAGCATCCT GAGTAGCTGG GACCACAAGT GTGTGCCATC
198961 ACACCTGCCT AAAAAACAAA CAAACGAAAA AAAACCCCA GAGAACTTTG TAGAGACAAG
199021 CTGGTCTGGA ACTCCTGCGC TCAAGCAATT CTCCTGCCTT AGCCTAAAAG TTCTGGGATT
199081 ATAGGTATAA GCCACCATAC CTGGCATATG GCAAGTCTTG AGCAGGACAA ATACAGATGA
199141 TTTATGTCTG TCTTCCATGG TATTCAGGT TATTGTTGAG ATGGTCCCTT ATTGTCTTGT
199201 TCCATCTATT GATTAGATAA AACGTTGTTT CTCTGTTTAT TTTTCAACAG TAGCTTTTAT
199261 GTGTCTCTCT TTATCTTAAA ATTCTAACCA AAGAGCTGCT CTTTTCTTGG TGTACTTTAT
199321 CTTTGGTTGA TCCTTCTTAA CCTCTCTTG CCCTCTGGG CCTAAGATGA GGGCTGTTAT
199381 CAGATGTGAG TCTATGGGAA AGCAAGCAAG AGGTTCTTCA GCCTCCGTTT AGCCTTAAAT
199441 GTCTAGGTAG AATCAGTCA TGGCCCTTCC AATGTGGTAC AGACCAGATC ACAGAGACAG
199501 GGGTCTCAGC CAAGGTCTTG TGGCCTAAGC CTTATAGAAA TAATGAGTGT TTACTTACTT
199561 GGAGAACTCC CTTGGAATAT CTTTTTTTGT GAACCTGAGG CAACTTTTGG TGATTTCTTG
199621 ATGTCTTGGG AATCTTGGTC TAGAGCCATT TCAACCTGAT TTCTTTTCAT GTCAGTGGCA
199681 TTTTGTGACC AGATAGTAAA TAAGTTCTAT GATGTTCACT CAGAGAAATA CAATGACTTA
199741 TGATGTGAAG CTTCTGTGGT TCAGCCCTTA CTTCATCTTC ATTCCCTCTT ATCTGCATCT
199801 GTCTCCTGCT TGGGAACAAA AGTCTGGCTT CATTCTATGA CCCCCACGTT GAGTTTCTTA
199861 GTAGCACTTA CTTTCAATT AGGAGTGTC TCACCTCTAT CCATCAGACA TAACTAGCCG
199921 ACTAAACAGT CTAAATATAA AAATCATGTC CTACTCCTGC TGAAAAACATT TTAATTACTC
199981 CCCATCATTT AATTTTTTCT ACTGGGTTAT CTTTAACTTC AGAGTTGGTC TTGTGTGCAA
200041 CACAAGAAAA CCTGGCATAT ACATGGATTG AAGTGATGC CACGTGCATG TATTCCTTCA
200101 TGTACTATTT CATGTATTCT TTTTCACATC TGTTTTTTCC TCTAAAATTT ATTTCTTTT
200161 AAAAAATGAAA ATTTTGCATT TGACTAAATT TGTCAAATTT AGTCAAATTT GTTTAAACC
200221 ATTTTTAAAA TGTTTCCCGA AGTTTGGAGT GAAGTTAGTA CTTCAGAAAA ACTGTTTTGT
200281 ATTTTTCATG TGACCTCAGT GCACTGCTGT GCATTTCCAT TTCTGCGTCC ACACACATTT
200341 GTTTTGAGGA AATATAGGAA CGACAAGATA AAGTTCAAGC TCCTGGACAT TGCATAAAAG
200401 ACCGTCATGA CCTGGTCCTG TTGACTTCCC TAGATTTCCT GCTATTTCCCT AAGTTGAGAT
200461 TTTTGGTTTG GATGCTTTGT GTTTTCTTAA AATCAAAATA GGTTTTTGCC TTTTATGATT
200521 ATACAGTAAA TAAATGCTAT TTGTGTGAAA CTTTAAACAA TACAAAAAAA ACCTAAGGAA
200581 GAAAGTCAGA TTCATCTAAA AATCCTGTG GCCAGAATTA ACTACCTTAG TTATTATTTT
200641 CTCTATCTCT CTCTCTCAAT GTATATTTGG TGTAGGTATA GGGGTGTGTG TAGTGTGTGT
200701 GTATGTATAT ATCTGTTTCT ATTCCTGTAT GTGGATGTGC ACAACGCATC CTGCTTTGTA
200761 CACTACAGTA CTAGCATTTT TCTAATGTAA TTCAATATTG TTGAAAACAT TTTAAAAAAG
200821 CTTGTATATA TACACACACA TACACATACA TGCATGTATG TACATATACA CATACAGACA

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200881 AAAATGTATC CTATGTATAT TCACACATGT ATACACACTC ACACGTACAT AGAGTTTTAC
200941 ATCCATAGTT TATAAATGTT GCTTTTTTTT GGTACCTTT TTGCTAAGTC TTACACTTTT
201001 TTTTTTTTTT TTGAGACGGA GTTTGTGTGT CATTGCCCAG GCTTAGTGCA GTAGCGCGAT
201061 CTCACCTCAC TGCAACCTCG ACCTCCCGGG TTCAAGCGGT TCTCCTGCCT TAGCCTCCTG
201121 AGTAGCTGGT ACTACAGGTG TGCGCCACCA TGCCTGGCTA ATTTTGTAG TTTTTTTATA
201181 GAGACGAGGT TTCACCATGT TGGCCAAGCT GGTCTGGAAC TCCTGACCTC AAGTGATCTG
201241 CCTGCCTCAG ATTCCCAAAG TGCTGGGATT ACAGATGTGA GCCACTGCAC CCGGCCAAGT
201301 CTTACACATC TTTTTTTTAC CACTAAACTG TTTACCCAAA CCTGATAACC CAAGTCAACA
201361 GCTATTATGG CTCACACAAT CTTATGTAAA CAAAGATACA GATATATAGA ATTTTCTTGA
201421 TTAATATTCA GAAAAAATG GAGTCCCTTT ATACGTCCTT AGTATCTGCT TTACTCATTT
201481 AAAAATGTAT TACATTATAT GAAAGTATTC AGGTCAAATG TTATAGATGT GATTCAATTCT
201541 TTTTAACTGT GTTATTTTTT TGCAATGACT ATGTATCACA AAGTACTCAG TCTTCCACTG
201601 ATGAAAATTT GGGCTATTTT CAGTTTGTCT TCCATTTTTT TTTCTTCTCT TTGGATTTTC
201661 ACTCAATGTG TTTACTAATT TAGGAAGAAT CAATAGTTTT TATGGTATTA CTCTCCTCAT
201721 TCAAGAAATAT AGCATATGGT ATAGTATAGT AGAGTACTTA GTTTAATTTA GCCAGATCCT
201781 GTTTTCTGCC CTTTAATAAAA ATTCTATCAT TTTCTGCCTT TGAGTCACAT TTTCTTGTGTT
201841 CATATAATTC TTAATAAATG TATAGTTTTT ATTCTAAGGG AACATAAAAA CTCTTTTCCA
201901 TTTCTATTCC TGTCTAGTTA ATTCTACTAT TGGGAAAAGT AACTGTTAAA AAAAATTCTT
201961 ATCTTTCCAG TCAGTTCACC ACATTTCTCT TATACCTTTG TACTTTAATC CCCAGTCATG
202021 TTGAACACTT CTTATTCTCT ACACCAAGCC TCAACGGGTT TGCTCTTTCT GGAAGGTGCT
202081 TCCCCTGTAT TACTGACTTA TTCATACCAC ACATGGAGAC TGGCGCAGCC CTGTTCTGCC
202141 TGGGAAGCCT TCCCCTGATA CCCCTAGTTG GCAGGAGTCT TCATTGTGTT TTTTCTAGTC
202201 ACCTGTGCAA GTTTGTATTG TTCATGTTTA TCATCCTTCA TTCTAGTTGT CTGCTCTAT
202261 GTGTGGTCTC ATTCAGTGGA CTCTGAACTC TTATGAAGTC ATGTCATGGG TCAGATCTTA
202321 ATAAATTAAT ATTGTCGGAA GCTAATGTCA TGTCTAGAAT ACAGAAAATT TATCAAAAAA
202381 AAATATAGTA TGTGGCTGG GCGCAGTGGA TCAAGCCCGT AATCCCAGCA CTTTGGGAGG
202441 CCGAGGCAGG AGGATCACAT GAGGTCAGAA ATTCAAGACC AGCCTGGCCA AAATGGTGAA
202501 ACCTCATCTC TACTAAAAAT ACAAAAAGTA GCCAGGCGTG GTGGTGCCCA CCTGTAATCC
202561 CAGCTACTCA GGAGGCTGAA GCGGAGGAT CACTTGAACC TGGGAGGCAG AGATTGCAAT
202621 GAGCTGAGAT CATGCCACTG CACTCCAGCC TGGGCGACAG TGAGACTCCA ACTCAAAATA
202681 ATAGTAATAA TAATAATAAT AATTGTATGG AATTGAACGT CTCTGATTGG AAATAGCTGT
202741 TTTTAAAAAA ATTATTATTT TTTAAGTTCC TGGGTACATG TACAGGATGT GCAGGTTTGT
202801 TACATAGGTA AACGTGTGCC ATGGTGATTT GCTGCACCTA TCAACCCATC ACCTAGGTAT
202861 TAAGTACAGC ATGCATTAGC TCTTTTACCT AATGTTCTCC CACACCCCCA CCCCATCCTC
202921 CCCCACAGG CCCAGTGAG TGTGTTCCCT CTCCCTGTGT CCACGTGTTT TCATTGTTCA
202981 GCTCCCACTC ATAAGTGAGA ACATGAGGTG TTTGGTTTTT GTTTCCTGCC TTAGCTGTTA
203041 ATGTCAGGCC AGAGAGGCTT AAATTTTTTA GGATCTCTGG ACTTTTCTTC TACATTACTC
203101 TTGATGTTTA TAAATGTTAC AACTTCTTTA ATTTTATTAA ATGTATACCT TATTGAGTTG
203161 ATTTAACTGA GTTAACTTTG TTATATGAAA ATCATGATTG GGAGTGAGGG GGTAAACCA
203221 GCTACAGAGA TCTTGATTGT TGGTGGTGAA GCAATGCAAG AATTCAATTA TTCAGTAAAC
203281 TAATGTTTAT TAAGCGTGTA CTGTCTTAGT CTGTTCAGAC TGCTGTAACA AAATATCATA
203341 AACTGGGTGA CTTATAAACA ACAAAAAATT TATTTCTTAC AGTTCTGGAG GTGGGAAGTC
203401 TAAGATTAAG GCCCTGGCAA ATTTAGTGTC TGGTGAGGAC AGGTAGCCAT CTTTTTGCTG
203461 AGTCCTAACA TGGCAGAAGG GTTGAATAAA CTTCTTGGG TTTCTTTTAT AAGGACACTA
203521 ATCCTAGTGA TGAGGTTTCT GCCCTCATGG TATAACTACT GCCCAAAGAC CCCCCTTCT
203581 AATATTATCA CTTTGTGGGT TAGGATTTC AATGAGTTT TGAGAGGATA CAGACATTTG
203641 GATCATAGCA CACACCATAG GACGACACT GTGCCAAGAA TTGTGGATAT AGTGATTCTC
203701 AAAATGAACA AGATCCCCCTC AGAGAGCTTG CAAAATCCAG CTATAAAAT ATGCTTTTTA
203761 AACAAATTAT GCAGTTTGAA AAATCTACTC TGAATCTTAC TTGTGGCATT GAATACTTTC
203821 GGCCACTCTT TCCTTATTAT ATTAAATATT TACTCTTGTT TGGGGGATCC AGTCTCCTT
203881 ACTTTTTCTA CCAGAACTGG TATCAGCTCA TGCTCTGCCT TATGCAAAT AAGAAAATAT
203941 CATACCTTTT GGGTAAATTA AGCCAAGAAA GTTCTCCTTT CTCTCTTTTC TCTCTTTCTT
204001 CTTTCTCTC TTTCTCTTTC TTTCTTCTC TCTCTTCTT TCTTCTTTC TTTCTTTCTT
204061 TCTTCTTTC TTTCTTCTT TCTTCTTTC TTTTCTTTC TTTCTTCTT TCTTCTTTC

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204121	TTTTTCTTTC	TGACAGGGTC	TTGCTCTATT	GCCTAGGCTG	GAGTGCAGTG	GTGCAATCTC
204181	AGCTCACTGC	AGCCTTGAAC	TCCAGGGCTC	AAGCAATCCT	CCTGAGTAGC	TGGGACTATA
204241	GGCATGTGCC	ACAACATCAA	GCTAATTTTT	GCATTTTTTT	GTGGAGACGG	GATCTCCCTA
204301	TGTTGCTAAG	GCTGGTCTTG	GATTCTCTGG	CTTATGCGAT	TCTCTGCCT	CAGCCTCCCA
204361	AAGTCCTGGG	ATTACAGGCA	TGAGCCACTG	CCCCTGGCCA	TTATAACTAT	TTTCATTGGC
204421	TTATCAGGCA	CATGATAACT	ATAATAAATC	AATAACCAGA	ATTTTTAAAT	AAAGAAAGGA
204481	AGGAATTGTT	TCAACTCTTC	CTGCTACCCC	TCTATCCCTC	AAAAGGGTAG	GCTGAATGTT
204541	GTCCTCCAAA	GATATCCATG	TCCTAATCCC	CAGAACCTGT	AAATATATTA	CCTTATATGA
204601	CAAAAGGGAC	TTTACATGTT	TAATAAGTTA	AGAATTTTGA	GATGGGCAGA	TTTTCTTGAA
204661	TTTTGCAGAT	GGGCCCTAGT	GTAATCACAA	GGGTCTTTAT	AAGAGACAGG	CAGAAGAGTC
204721	AGAATAAGAG	AAAAATACTT	CAAGATGTTA	CACTGCTGGC	TTTAAGGTGG	AGGAAAGGCC
204781	AAGAGCCAAA	AAATGCAGTG	GTCATAACAA	GCTGAAAAGA	AAAAGAAATG	GATTTTCCCC
204841	TAAAGCCTCT	GGAGGGGGCA	CAACCTTGCC	AATACCTTGA	TTTGGCTCA	GTGAAACCCA
204901	TTTTGGACTT	CTGACCTTTA	GAAGTGTAAA	TAAATAAATA	ATTTGTGTT	GTTTCAAGCC
204961	ATCACAGTTG	TGGTAATTTA	CTACAACAGC	AATAAAATAG	AATTAATATC	AGAGATCTGA
205021	GGAGTTGAGT	AGGATAAGCC	TACTCCAGCA	GGTTATTTCT	GGAGTATGGT	GAGACTCACT
205081	AGGATGGCGG	AACTCAATTA	AGGAAGTCTG	AAGCTGATAA	GCCAGAGAGG	GAAGGCTCTC
205141	ACTTCATTTT	ATAAGGGTTG	CGTCACACTA	GGAAGATCCA	ATAGCAACCA	CAGTCTCAAA
205201	ATTAATGATT	ACAAATAGGA	CACAATTCCA	AGAGTCGGGA	GCCAAGCAGA	AAATGGATTA
205261	GGGAAGACAT	GGATGATATG	AAACAGGAAG	GAGGGGTACA	AGGCAGCTTC	CTGGGAAGTT
205321	GCCAGGGCAG	TCACAGTTCA	CATTCAATTAG	GCTGTGGGCA	CCAAATGCAT	ATGGAATAATC
205381	TAGCTGACTT	AACTGAACTC	CTGAAGAGGA	ATGAACACCT	CATTTATTGA	GGAGCTACTA
205441	CCAATTAGAA	TATGTATTTT	ATTTGTTCAA	TAACCCCATG	AGTACAGTAA	CACAATCCTT
205501	GCTTTACTAA	AGCGGAAGCC	AATTCAAAGA	GGTTCAGTGA	CTTGTCCAAG	CTCAGGGAAA
205561	ACACTAGGAA	GTGAATATGG	GTCTGACTCC	ATCACTGATT	TCAGGAGCCC	TGCCCTTTCC
205621	TCCACACCAT	GCCCCCTTGC	TTTCAGAAAA	AAAGGCTTGT	TGACTGAATG	TTGTATGCA
205681	CAGTTCAAAG	CAGAAACACA	CGATGACATC	TTTTGAGATA	CTCTAACAGT	GAGAAGTTGA
205741	AAATGAAGTT	AAAAATTAAG	CGGCAAAACC	AAGCCGAGGC	TTTCTGAGAA	AGTGGGGCCA
205801	AACCTGTTGC	CGTCTGACTG	CCACGTGGCT	CACTATTTAT	CCCTGTAAAA	ATCTGCAAAA
205861	GTATTTGAAA	GGGAAGAAGG	GACAGAAAAC	TCCCTCCTTT	TCCAAGTTAG	CCTTATAGTC
205921	TAGGGCTTAA	AATACTGGTT	TAATGGTGAA	GGTAAGTGCT	TTTCTTCTTT	TTGGGTAGAA
205981	GGATTATTAC	TAACTTACCA	AAGGTCCATT	AAGGGGAGGG	AACAGTTTTA	GGAGAAGTCA
206041	GAGAAAAGAC	ATTAACAGCA	ACATAAGGAT	CTCCATCTGG	TAATATTGCC	TAATTCCAAA
206101	ATGAAGAGAC	TCTCTGAAAA	AGATAACTGA	TTCAATGAAG	ACCCTAGGGC	AAGGCTTGAG
206161	AAGCCACTGG	TACCAATGGA	CAGTGTGGAC	AATGGTCATT	TCTCCAAGGA	CGCTGTGAGT
206221	ATTAAGTGTG	ATGCTGTGAT	TAGTCAGACT	GGGATTGGCT	GTGGAATGAA	ATACTGATCA
206281	GAAGTGACAA	GATTTGTGTT	TGGGACTGTG	GCTAACGAGT	CTTTTCAGAC	TTCTATATGA
206341	ATTTGAAATG	GTCTCTCAGG	AAAAGGAGAA	CATGGCCGGG	CCTGGTGGCT	CACGCCTGTA
206401	ATCCCAGCAC	TTTGGCAGGC	TGAGGCGGGC	AGATCACTTG	AGGTCAGGAG	TTTGAGACCA
206461	GCCTGGCCAA	CATGGTGAAA	CCCTGTCTCC	ACTAAAAATA	CAAAAATTAG	CAGGGCGTAG
206521	CGGCGCGTGC	ACCTATGCGC	ATGCATAGTG	CGCGTGCCAG	CTATTTCAGAA	GGCTGAGGCA
206581	GGAGAATTGC	TTGAACCCAG	AGGTAGAGAG	TTGCAGTAGT	TGAGATCATA	CCACTGCACT
206641	CCAGCCTAGG	TGACAGAGTA	AGACTCTGTC	TCAAAAAAAT	AATAATAATA	AAAGAAAAGG
206701	AGAACATGAC	CAAAGTTATG	AATAAGACTG	AAGGCAAGAA	AATTGTACGC	TTGTAGAGAT
206761	CACCTAGCTT	GTTGCCCTCA	TTGTACAGCT	AAGAAAAGGC	ACCCAGGGAC	ATTGTGGTCA
206821	GCACCAATTT	CTCAGAAAGA	TAGGCAGATG	ATGAGAGGGC	CCTCAGTTTT	TCTAACACTG
206881	AAGGAATTGC	TTCTATGTTT	TCTGGTGAAC	TCCTCCCCAC	TCATCTTGAG	GATTCCAGGC
206941	CAGAAGAATC	CACTTTAAAA	AAGAAACATT	TAAAACCAAT	TTAACCACCA	ATCAAAGGCA
207001	CTTTTATAGA	AATACATTTT	ATTTGCTGTT	GGCCTGTATT	TATGGATCTG	AGAGGGCTAG
207061	ACTGCCAATA	TTGTGACTGT	TTATTATTAT	TGCTGTTGCT	AGTATCTAGA	ATATTATACA
207121	ACATATAACA	CTTTGCAATT	TACGAGGCAT	GTCTCATACT	TTTGTTTTCA	CTCCAAACTG
207181	CCCAGTGAAG	TAACATTATC	CCAATTCTTC	CTATGAAACA	GTGAAAGCCC	TAAGAGTTTT
207241	TGAAACTTTA	CCTGGTTTAC	TCAATTTGGG	AATGGCAGAG	CAGAATTCAG	TCCTTGAAATA
207301	TCCTCCCACT	GCAGGTTTAT	GCTCTTTGAT	CTAGGTGTAA	CATTTACTCT	GAGTAAACTA

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207361 GGACTCTGGG CTAACAGAGA TGAAGCAAGA CAGGCTGGAT ATTAGGAGAA TCTAAGAGCA
207421 ATCTAACGAC CATTATAATA AAATCATGAG TTCTAGACTT AAAAAAAGGG AAAAACCTGT
207481 TTTTTTGCTT ATGCGTATAC CATAATATTT ACATTATTTA TTTTTTCTC AAATTCAACC
207541 TATACGGTGT CAAGTAATTT TTTTAAATAT AACATTTTCC TTAACTTAA TTTCAATTCA
207601 TTTTCTGTG TCTACTTACA ACTTTGGCAC TAGAATTCAC AATTTTTTTT TAGAGGTATA
207661 TCTCCTTAAA GGGGAAGGGT CTGACACTGT TACATGTTCT CAATTGTTTG CAAATAGGTT
207721 AATAATTATT CCAGTGTCTC TAAGTACATA TCAACCATGC CAGTGTTTTCAG CCTCCATAAT
207781 TTTATTAGCT TCTGTGCTTA TTTTGGAAAA ACATTTCCCA TTACCATGAA AGACCTCAGT
207841 TTAGGATGGT TTGGTATGTT AGCCTGATTT CTGCATTCTG CTCATGCAAA GGAAATAGG
207901 AAACGAAGAA CTGAAATTAC CTATTGATAC AAAATCAAAG TAGCATTTGA AACCATAAAA
207961 CTTAAGTAGG GCTTTTCATC CTTTCTCGTT AGACAGCAAC AGAGAATGGG AAGAAAACT
208021 AAAGTGATGG GTTGTGATA CAATTCCAGT AACATAAAGA GCAAGGAGAA GTAGTTTTGT
208081 TGTGTTTATG TTTAATATTC AAAGCTCAAC CTAAGATAT TTTTCATTAT CAACTTCCT
208141 TCTAGAATAA ATGATTAAAA CTGATTTTAA AATATACAAA TTCTCCTTTA TAATACCTCA
208201 AAATGGAGCT ACCCCATTGA GTTTTAAGCT TGTGATTAAA ATATTACGAA AACAAAGGGG
208261 AAGTTGTAAT AGGTAGAACA AGCAGTAGTC TAGGCATTAG GGGATCTGGT GCTGGCTCTG
208321 TGCATCATGT GGTTCAGGC AACTTTTCAA ATTTTCTACG CAAATTTTCT TATCAATAAA
208381 ATAAACAGTT GGGCCAGAGG ATCTCTGAGT CTCTTTCAGC TTTTCTGTT TATAAGATTG
208441 GAGAAGTTGG TGGGAAAGCT TTAAGTGGAG TGTAAGTAAT TGCAGCTGCA GTTACAGTTA
208501 AAGAGTTGCC TTCAGCCAAG CCACGGGATC TTGCATAAAA AGTGAAATCA AATAGAAAAT
208561 GGTCCAACT CTGGGTTTGA CCACAGATGA CTTTCTGAGT GATCTGAGTG TAGAGCAATG
208621 AGCTGAACTC CTGATATCCA GATGTTAGCA AGACTTGAG GCCTTCTAAG GCAGAGCAAC
208681 AACCAGTATC TGTCTGTG TGACCTGAT CTTACTAGCA ATTGGGCTC CATTTGGGTC
208741 CATTGTACAA AACAACAACA ACAACAACA TAAATCTCC AAACACCCAA AATTCAAAAT
208801 TTAGATGGAG AGATACTATT CCCAGAATTC TAGAGATATT TGGAAAGCAG AAAACTATAC
208861 TTGCCATGCT GATGAAGTCC AATTATTGCT CTTTAAATA CATTAGCTA CTTCTGAATA
208921 TAAATGAGT ATCTACTAAT TATTTACAAA ATCACTGGT AAATATAGAA AGTCAAAAG
208981 AATGAAGTGA TCATCTGTT TTGTAACCCA GAAATAGTCA TTACTGGCAC TTGTGTGAAT
209041 CAGTTTCTAT TCCTGTATGT GGATGTGCAC AGCGTATCCT GCTTTGTACA CTAGAGTACT
209101 AGCATTTTTT TAATGTAATT CAATATTGTC GAAAACATTT TAAATAGCT TCCATCACAA
209161 TAATCTATCA AATTGACTTG CCAGACTCTC ATTATTAGGT TAATTTATCT CTAACATTAT
209221 GCAGTCATGA GTAATACTAC AAAGGATATT TTTGGACACA ATTTTTCATC TATGCCTTTC
209281 TTTATAATCC TTCATCCTAA GGTACAGAT TATGAATATC TTTAAAGTAC GGACAAGTCT
209341 TTTAAATTTT GTGTGCAAAA ACAGTGCAAA GCCTTGAATG ATAAAATAGA GGTTTGATAT
209401 ATGTGTTTTT TTGTTTGTGTT GTTTTGAGAC GGATTCCTGC TCTGTCCCCC AAGCTGTAGT
209461 GCAGTGGCAC GATCTTGGCT CACTGCAACC TTTGCCTCTT GGGTTCAAGC AATTATCTTG
209521 CCTCAGCCTC CTTAGTAGCA GGGTCTACAG GCATGTGCCA CCACACCCGG CTGTTTTTGT
209581 ATTTTITAGTA GAGATGGGGT TTCACCATGT TGGCCAGGAT GATCTCGAAC ACCTGACCTC
209641 AAGTGATCCA CCCACCTCAG TATCCCAAAG TGCTGGGATT ACAGGTGTGA GCCACTGCAC
209701 CCGGCCGATA CATGTGTTTT TAAAGTCACA GAAATTTTCA ATGTCTTGAA GGATTTTAAG
209761 CAATTTAAAA AATAAAGTCA TAGAAGCTTC AATTTAGGAA TGAATGGAAA ATTGATGATA
209821 TTCTTAGGAT ATGGATTTTT CCTAAAAGAA ACAAATGTAT GCATCCCCAA AGATAATTTG
209881 ATTAGTATAC AAATATTAAA TTAACATGT CCATATTAG AGCCATGAAT TCTCTTTGCC
209941 TGTCACAATA GCTGGATTTA TTCACAATTG TAGTAATTAG TCCCTGTTCA TTATAATTTT
210001 CTAGGTGATA TGAAGACTTT GTCAAGTCCA GCAAGTGTCC ACATTGTGTG TAGCAAACAT
210061 GAGAATAAAC ATTTTAAACT TTTAAATGTA ATACATATTA GTGTTATGTA ATGTCATCCT
210121 TCATGTTTCA AGGCACATGG AACATTGTTT TGGTGGTACA GAGGGGAGAG AAACACCATC
210181 AGAATGAAAG GAAAGACCGC TCTGGAACCT TCCTCCTTAG CTCTTGAGCT TAGTTTAAAT
210241 GTCCTGTCTT ATGGTCTGCT ACAAGCAATA CCACTCTTCA CCTTCGCATG CTTCTCTGTG
210301 GTTTGATAAA GTACATGCAA TTTTTCATT AATTCTTCCA GCTGCACTAA GAAAGGAGCC
210361 TTATCTTTAT TGAACAGATG AGGAAATGAA TGATTAGAGA ATTTAAATGA CTAGCTCTAG
210421 GTCACACAGC TGGAACTTAC AGCCAGATTT CCTTTTAAACA ATCTGTAAAC CAAAAGCATA
210481 CCAGTAGTGC CCCATAAAAT GTAAGTTATA GAGCTGTGTT GGGTCAAAAC TTTTACTGAT
210541 GCTAAGAGGA GGCAACATTA ACAAGGGGAA ATTATTTGTG TATTATGTTT TGGATTATGT

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210601 TCTCTCCATA GATAAAAGAC TGTCGTAGTA AAAGAGATTC AGGGCACAGG GAAACTCCAC
 210661 CACAAAGCGT GGTACCATTT CCCACAGAAG CTAAATGGAC GGGGAAGCCTG CCACCAGGAA
 210721 AGGTAAAGCC ACTGCTCTTG TTTGCAGGCT ATGTTAATAA GCTGAAGCTT ATTCGACAC
 210781 ATTTACACAT CTCTGCATCA CACTGACCCT TCGTAAAGAT ACTCCCAGTG TAACATTGGA
 210841 GCCAGCTCCA GCCCCTGATC CTGTTGCTTT TTCCTTAGCC CCATGAAATC ATCTGCGAGA
 210901 AATTAAGCCA AATAAGCAAT AAATCCTGGG ATCTAGGGAG TGGGAATAAGT TTTGGGAAAG
 210961 TCTTTTTTTT TTTTTTTTTG ACTGAGTCTT GCTCTGTCTC ACAGGCTGGA GTGCACTGGT
 211021 GCGATCTCGG CTCACTGCAA CCTCTGCCTC CCGGGTTCAA GTGATTCTCC TGCCTCAGCC
 211081 TCCCCAGTAG CTTGGACTAC AGGCACACAC CACCATGCCC AGCTGAATTT TTGTATTTTT
 211141 AGTAGAGATG GAGTTTCGCC GTGTTAGCCA GGATGGTCTC GATCTCCTGA CCTCGTGATC
 211201 CACCGGCCTC GGCCTCCCAA AGTGCTGGGA TTACAGGCAT GGGCCACCAC GCCTGGCCCG
 211261 GGAAAGTCAT TTAAACCAA CCTATGTATG AATCCCTACT ATAATATTCT CACCAAGCGG
 211321 CTGGCTCTTT CTCCTGAGCT TGGAAACCTC CAGTAAATG GAAATAATTA TTTCCAGAC
 211381 CACCACTCTT ATCTGTGAGC TTTTTTGGCC ATTAATAAT ATTTCTTCCA TTATATTTTT
 211441 ATCTGTGTCT TCACAGGTTT TCTCTTTCTT TCACTTTAGT GCTTTTCTTC AAATAAGCAG
 211501 GAAAAATCCA ATCTATCATG CACATGGGAA CCCTTTCAAT ATTGGTCTGT GGTGTTCCA
 211561 TTTTATGGGG ATGCTTTTAA AGAAAAAATT TGTCTTTCA ATATATTGAA TATCTTCCAG
 211621 CACCACATCA CCTGCAAGCT TTGTAAAAAT AGTCTACAT ATTAATTTTT TTTTTTTTTG
 211681 AGATTGAGTC TCATTCTGTC ACCCAGGCTG GAGTACAGTG ACATGATCTT GGCTCATTGC
 211741 AACCTCTGCC TCCTGGGTTT AAGTGATTCT CCTGACTCAG CCTCCCGAGT AGCTGGGATT
 211801 ACAGGCATGC ATCACCATGC CTGGGTAATT TTTGTATTTT TAGTAGAGAT GGGGTTTCAC
 211861 CATGTTGACC AGGCTGGTCT CAAACTCCTG ACCTCAAGTG ATCCACCTGC CTTAGCCTCC
 211921 CAAAATGCTG GGAATACAGG CGTGAGCCAC TGCACCCAC GTAGTTTTTT TTTTTTTTTA
 211981 AGTTGAACAT ATGTGAAGGC AGGACCTAGT GACACATAGC AATAACATTT CCAAGTAGAC
 212041 ATTACACTAG GGAATTAGTC AAAGTGTCTA TTTAAAGTAC CATCTCTCAA ATGTATTAAA
 212101 AGAGAATCCT TGGATGTGCA ATACCTTAAT TCAAAGGCAG CTCGTTATGT ATAACTCTC
 212161 AAGCTTTGTG ATAAACAAAT GTGCATAACA GATGGGACTA TTGACTTACA GCCCAGGGAA
 212221 TTTTATTGAC GCTGAGAAGG TTATGTGACT GGCTCTGCCA CTGTCATCCC CATTCACTTC
 212281 ATTTTGGAGC AATATGACAT AAATGCCCTA CATGTGGGTT TTCTCTATTT ATCATGTGTT
 212341 TCCTATCCCC TTGAAAGATG GCCATATTTG CTTTACTTGG TTATAAGATC CCATATTCGC
 212401 TGTCTTGAAG CCAACCAAAT AATTGTGACA AGTGGGTTTG TAGTGCTGGC TATTTTGGTG
 212461 AAAAAAAGAC AATGAGACTT CATGTGTCAT CCAAAGTTCT ATCAGATCGA GCTGTGAGAG
 212521 AAAGGAAAAG AAAGGGGTCT CAGTCAGGAT GCTCACTGCA TACATCTGTG TTGTGTCTA
 212581 GGTCCAGATT TCTGTTTATT ACGCTATGGG CTGGCTCTTA TCATGCACTT CTCAAACTTC
 212641 ACCATGATAA CGCAGCGTGT GAGTCTGAGC ATTGCGATCA TCGCCATGGT GAACACCACT
 212701 CAGCAGCAAG GTCTATCTAA TGCCTCCACT GAGGGGCCTG TTGCAGATGC CTTCAATAAC
 212761 TCCAGCATAT CCATCAAGGA ATTTGATACA AAGGTAAGTA TGATGGAAAA TAGGGCTCTT
 212821 TGTTGAGAGA AAAAATTTT AAAGGAAGGC ATAGATCTTG ATTCTGTGGA GTATGGAAGT
 212881 ATACATTTCC AATGACAAAT TAAACTGAC TGGAATATT TTTCTTTGAG ACATTGCTTA
 212941 CTTCAATAAT AAAAATAAGA TTTCATTGAG GTTATTATGA TTATAAGGTG GGGGAAGTGT
 213001 AGAGTTAAAT GTGAAAAATT TAAAAATGGA ACAGTTTATG TGATGTCTTC AATGAAAAAC
 213061 TAGGTATTAC CTGGGCACAT TCTTATAGGT TACTCAATCC TATTCAGTTC TCTGCCTGTT
 213121 TTATTGTTTC TGAGCAATTT TATATCCCTG TAAATTCTAT ATAACCAATA GAAATGCAAA
 213181 CGATTCTTGT CCATAGCTTT GCAAATAAAT TTTGCCAAGA GAAAAATCAG TTAAAACTTT
 213241 TCTCCACTCA CCTCCCAGTT GAATTAGCCA ATTTTGCTGT TTGTTTGTGT GTTTGTTTTT
 213301 TGAGATAGAG TCTTCTCTG TCATTGAGC TGGAGTGCAG TGGCATGATC TCAGCTCACT
 213361 GCAGCCTCCG CCTCCCGGGT TCAAGAGATT TTCCTGTCTC AGCCTCCCAA GTAGCTGGGA
 213421 GTAAGGGGGC ATGCCACCGC GGCTGGCTAA TTTTGTATT TTTAGTAGAG ACAGGGTTTC
 213481 ACTAGGCTGG TCTCGAACTC CTGACCTCAG GTGATCCACC CGCCTCGGCC TCCCAAAGTG
 213541 TTGGGATTAC AGGTGTGAGC CACTGTGCCA GGCTCTGCTG TATATTAAAA GTCTATTTC
 213601 GCATTGCTTC CTGCTTGTGT TATGCTGAT TCTTTGAGTT TTCCTTTGAA CCAGTTATAA
 213661 CATCTTACTT ACTTCCTCCA TTAATCAATG AGTTAAATAA AATCTTTGTT GTATGTTTAT
 213721 TTTACATTTA TATGAAAACC ATGAATTTAC CCAATTAAAA AAATTATCCT TTAAATTATC
 213781 TTGTACTGTA CATTTCCCAT GTCATCCCTA TAATTCATGA TTAATGATTT TATTACATTG

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213841 GACCTAGCTT ATTTACAATG AGTACATAAA TTTATTGTCT CCAGTCTTTC CTCCATTATC
213901 CCGTCTACAT ATCCACACTG AGTAGATTCA CTACTCAGGA ATCTTGGACA CCTTCAAGTT
213961 GCCAAACATG CAGTGTTTAC TGGACATGCT GTGTTCTTC AGAATTTGGG CCTGCTTCTC
214021 AGCACACTCA CATCTGCTAT CAATGACCCA TGGAAAGTTT TTGCCCTGAG CAAGCCAGAG
214081 TCCCTGTTAG TTTCTTCCAA ATGCTACAAG TTCACTTTTC CTATTTTTTC CGATGAGATA
214141 AAATTTTCCT TTTTGACTTT CTACAAATCA TAGTCATTTT TCAAGGGATA GTTCAAGTAT
214201 TGCTTCCTTT CTGGGACCTT CCCAAATTAT TATTTTCTCC TCTCAAAGTC TCTGTTTTAT
214261 TTATGTTTCAT CCTCAAATCT TGATTCTCAC ATGAATCATA TACCTTGAT TATTTATAGT
214321 TTTTTTGAGT AGGTAAAATA TTTCATATTT TATATTCTTT GGCTCTCTAC TTTATAGCAT
214381 GATGCCAGAT ATTTAGGGGC CTTACTGCAT TTATTTTTTA TTTATTTTAA AAATCTATTT
214441 TATTTTTTAT TTATTTATTT TAAAATCTAT TTATTTTTAG GTAAATATTC AGGTAATATA
214501 ATTTATGTAA TTATTTAGGA ATTTTAGGTA GTTATTTTAA AATAATTCAG ATTATTTATT
214561 GAGTTATATC AGAAGAATGT GATCTTATTC ATTTGTAATA TGTGTTTTAG GAACTCAGTT
214621 CAGCCAGGGC AGACCATAAT TCCCAAACCT GACTTTTCTT TTTAATTAGG CACTGATTTT
214681 GGTTAAGAGT TCAGTAAAGT TTTGTGTGTG TGTTTTAAAA AATTCCTTGA TATAAGAGTC
214741 AAGATGTTAC TCAACTTTTA CTAGAAGCAA AATAGAGGAA GTGCTTTCAC AGATGAAATA
214801 TCTCTCAATG TTTTCTTCCA TTTACTTCTT CCTATTATTC ATCTATATAA TCATTTTCTT
214861 TACCTCTTTT CTTCAATTTCT TCTGTTTTTC TCTCCTACTA AGACAAGCAA ATTAGGGGTA
214921 TAATTGGTTA TTTGGGAAGG TAGGAAGAAT ACAGAGAGAA ACAAAAATCA ATATTTTATA
214981 CTAGGGTCTC ACTAACCTCA AGCAACTCTG ACTGTAAAGT AGATTTTCAT AATAGGACTT
215041 CTTGACAAAG AGTTTTCCTA TTTTCCCCC AGGCCTCTGT GTATCAATGG AGCCCCAGAA
215101 CTCAGGGTAT CATCTTTAGC TCCATCAACT ATGGGATAAT ACTGACTCTG ATCCCAAGTG
215161 GATATTTAGC AGGGATATTT GGAGCAAAAA AAATGCTTGG TGCTGGTTTG CTGATCTCTT
215221 CCCTTCTCAC CCTCTTTACA CCACTGGCTG CTGACTTCGG AGTGATTTTG GTCATCATGG
215281 TTCGGACAGT CCAGGGCATG GCCCAGGTAT CCAGATACTT TCTCATTCTT GGTGGGATCC
215341 AGATTTCTGA ATTCTACAAA ATATCAAAGG TCTTAATGAT TTTCAATTC AAGCAAGCTC
215401 TGGACAGGTC AGTTTACTAT TTGGGCAAAG TGGGCTCCTC CACTTGAACG AAGCAAGCTC
215461 ACCACCATG CAGGATCAGG TAAGTGTGCA CAGATGGGTC ATAGCTTTGT CATCTGTTCC
215521 ATCCCACTGT GTCTTATCTT CTATGAATCA AATGGTTTGG GGAAGAGAGA GAAAAAGTAC
215581 TGCTGAAAAA TTCAACAATA TAAGACACTT GCATCACAAA TAGGAAAGAT GCATCTGTGC
215641 AGTAAAGACA TTGAAGCTTA GAAGTAGAAA AAACCATTGT GAGCTAGGTT TCAGCTCAGA
215701 AAAGCCTTAG TAGTCAGAAA AGCCTTAGTA GTCAGAAAAG CCTTGTGCGA AAAAGTTTAA
215761 ACCTTTAAGA ATTGCACACA TGGAAAAAGA TCAAGTAAGC TATATATACA CCATCTTAGC
215821 AATGATTTTG AAGTGAGAAT TAAGGCTACC ACAGCTCCAG GTGGTAAGGA GAGAAATCAG
215881 GCTGGAAGAG TTTGAAGTTT CTGTATTATT CTAAGCTCTT TACTATTCTA TTATGAGCTC
215941 ATTAATTCTC ACAACAACCC TCTCATATAA GTACCATTTT AAATCTTTAT TTTACAGAGA
216001 AGGGAGTTAA GGAAGGTGGA GATTAAGAAA ATTGCCCAAA TACAAATAGC CAGCAGGTGG
216061 TAGGTCTGAG ATTTAAGCCC ATGCAGATT TAGCCCCAGA GCAGACATTC TCAATCACTA
216121 TGCTAGACTG CCTTTCCATG GTATGTGATC CTACTCAGGC CTCTACAGCT TTATCATTGC
216181 TGTCTCCCC AGCCTGTCGT GCTGAGAGTA TATACTCGAA GAGCAGAACT AAAATTCCAT
216241 CCAGCTTCTC ACTCCTAGGT CCACTACACA GCTGCATCCT GCAGACTTTT ACCTCAAGCA
216301 ACCCTCCTGC GTTCTTGCTT CCTTCCATCA TAGTTGTAAC CATCTCCTCT ATTTGCAAA
216361 ACTATCTGCT GATCTCTCTC TTCTAGACTG GTTCTTTTCA ACCTTCTTCC CACCAAAACC
216421 AAGTTAGCTT GCTAAAATAA AGATGGCGCA TTTTACTCA CCCGCTTGAG AATTTTCAAT
216481 GTGTTCTTTC ATGCTTACAG AGTAAAGCCT GACCTCTTTA TTGCATGAAT ACAAAGTTC
216541 TTAGCCATCT GGCCCCAACC TTGTTCCACT CAACTCCCCT GTGCAAGCAT GGCTCCAGTG
216601 GCACTGGACA TTGGCTGCTC TCCACATAGA TCTGCACTGC ACTTCCCTCT GGCTCTGCTC
216661 CCGTTAGTTT ATATGCCTGG AAAGTTCTTT GCCCCTGTTC CTTGTGCCAA AATTCCATCT
216721 ATCCTATTGC ATAGCTTATG TAAAACTTC CTAAACCTTT TTTTTTTTTT TTTTTTTTTT
216781 TTTTTTTTTT TTTTGTGAGA CGGTGTCTCA CTCTCCGCC CAGGCCGAC TGCAGTAGCG
216841 CTATCTCGGC TCACTGCAAG CTCCGCTGCC CGGGTTCACG CCATTTTCTT GCCTCAGCCT
216901 CCCGAGTAGC TGGGACTACA ACCATGACCG GCTAATTTTT TGTATTTTAA
216961 GTAGAGACGG GTTTCAAGC CAGGATGGTC TCAATCTCCT GACCTCGTGA TCCGCCGCC
217021 TCGGCTCCC AAAGTGCTGG GATTACAGGC GTGAGCCACC GTGCCCGGCC AAAACTTCTT

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217081 AAATCTTATA ATTATTATCA ATTTATCCTC AGATATACTT CCACGTACAT TGTAGTTTTA
217141 TTATATTTAT ATTTTACATC TTTTITTTTCA AATTGCAGTT TGGGACCCAT TAGTGAGTCA
217201 TAAATCCAT TGAGCGGGTT AAAATCATT TTTTAAAAA TGAGTAGAAT AGAATAGAAA
217261 TTGTTGGAGT GCATTGGACA TGGTAAAGTT AAATATCGAT TCATGAAACC ATCGTTTGAG
217321 GCATATGTGT GTGGTTGTAT GTACAAGTGT TTATGCATAT TGGTGTGTGT GTTATGTTAC
217381 CCTGTAAAT GCATTTCTTA CTATAGTCT CTGTGAAATA TGTGTCTTGT TGTITTTTAA
217441 TGTAGACTTC CAAAGCCTAC ATGGCATTTC ACTAGTGACA ATCAATTTTA TTCACATTTT
217501 TCTCTCCAAT TGGACCAGAA GCTCTTTGAG GGCAGGGGCT GTATCTTACC GATTTTGTGA
217561 AGTCTTTCAT TTCCTGCCCC TAGCCTCATA TTAGATCATG CAAGAATGCA ACTGTAATCA
217621 CAAGAAAATG CTAATGGGCT GTGATAGCAG AGAGTTACTG TGACAAACTA AGGGATTAG
217681 ATTGGTGCAC ATTGGTGTG AGGAGCCATT GAAGAATCAG AGAGTGTGTT ACTATTATTT
217741 GTTAATTTTA ATTATATCAT ATTACTTTAC TGGGGAAAAT CTGTGAGCTA TTTTAGAAAT
217801 AAATACTCTC ATTGCCAAT AATTCTAAGT CTGCCACCTC ACTGTTGGGA CATTGTTTAG
217861 GGAGGCCACG AAGTCTCAGC CTTTGATATT TTCATAAGTG TTTTCTCTCC TTTTCTCTTT
217921 AGGGTCAGCA TTTGGATCCT TCATCATCCT CTGTGTGGGG GGACTAATCT CACAGGCCTT
217981 GAGCTGGCCT TTTATCTTCT ACATCTTTGG TGAGTCACTT TCTCTTAAAT CCTAATGCCT
218041 CCATTTCTCTG AGCATCCATT TTGGCACCTA CACCACCCAC ATTCTTCTTA TATGAAAGAA
218101 AATGTCCTTT ATCAAATGGA AGATGATAAA AAATGTCAAC GGTGGTATC ATTTTAAATC
218161 TAGTCACACA ACCTGATTAA CACCTTCTCTG GTGGTCTGGA GAAGCCACAC GCAAAAGGTA
218221 GAGGAGTTGA CTATTCACAT GGCACCCACC GACTTGTGAT GCAGTCTTGT CCTTCCATAT
218281 CAAGCACCTT CTGCAGAATC TCTACCACCA CATCTGAAGT GCCTGCTATA TGCAGTTAAG
218341 ATGTCAAAGA TAGTGAAGTA CATTTTCAAT GTGTCTTCAT ATTTCAATTAT AATTATTATT
218401 TCTGTCCAAG ATGCCTTTCA CCGTGTCTCT ACCAAGTTAA TCTTGCAAAG TTCAATTCAA
218461 ATGTTCCCTT CCCCATGGGC CTTTCCAGGG CTTACCCTGT CAGATTCTGG CATCTCTCTC
218521 TTTATGATAT TTCCTCTCTA GGTATGTTG GTGTGTAATT ATTTATTTCT CCTTTTCTTT
218581 CCACTAGACT GTGAAATGCT TGAGGCAAGG AATCCATTCT ATGTTTTTCT CACTTGGGTG
218641 TCATCATGGT GCCTGATTTT TAGCTTTTAA ATAAAGAAT CAGTGAATCC AGTAATTAGA
218701 GGGGATTTAA AGAAAACCTAG TCCTCAGAAT CTTTTAACAT AGAATGTTCT TCAAATAAGG
218761 AATTCCAATA ATAAGACAAT TTTCTACACT TGATTTTGT TTTATAGCCA AATGGTGTCA
218821 TTAATATAG TCCTGGCCTG AATGGCTTTC TCATTAAATGA TGCTAATTAT TTTGGTTTGT
218881 ACATGTAAAC CAGGTATTGT ACAAATATAT TTCTTTTGGG AATCCATAAT GGATGTATGG
218941 CTTGAATACA AATAACTCTG TCTCTGTAA GTGCATTGGA AATTTTCCC TGCCACATGA
219001 TTTCATGGAA GGTGTTTCG TGTATGTATG ACTGCAAACC TGACTATTCA GATCTTCCGC
219061 AACAAGACAA CTTATGTGTG CATTAAGAAG TTGCTGCCTA AAATACATAA CACTGTAATC
219121 ATTGGAGACT TTAAAGTAAT TAATCAGCTA TGCAATGCCA CGCTCCTGTT ATCTCCAGAG
219181 GGCTCTGACA TTGACAAATG GTGGCTTTCT ATTTGAGACG TAATATCTAA AAAGCTTTAA
219241 CAGGTTTGTGA GAAGGATTGA AAGAAAGAAT GGGAAACATT AGGTCCTTAT GGTAGAATAA
219301 GCATTAATTG ATTAGTGTGT AGAAGGGAGA GGCATGCCAC TTCAGAGGAA ACTTCTTCC
219361 CCCAGTAAAC AAATCTACCT AAAAATAAT TTTATCCCTT CTTCCTCAGG AGCACTGGCT
219421 GTGTCTGCTG TCTCCTATGG TTCACAGTGA TTTATGATGA CCCCATGCAT CACCCGTGCA
219481 TAAGTGTTAG GGAAAAGGAG CACATCCTGT CCTCACTGGC TCAACAGGTA CAGTGCACAC
219541 CTTGTACCTG TGGCCCATGC AGAGGTCTCT AGGGCAGGGT GTGGATCTCC TCTGAGAGGC
219601 ACCATCTTGG CTGCTCTAAT ACTCATGCTG ATTAGATCTT TCTTTTCCAG CCAGTTCTCC
219661 TGGACGAGCT GTCCCCATAA AGGCGATGGT CACATGCCCTA CCACTTTGGG CCATTTCTCT
219721 GGGTTTTTTC AGCCATTTCT GGTATGCAC CATCATCCTA ACATACCTAC CAACGTATAT
219781 CAGTACTCTG CTCCATGTTA ACATCAGAGA TGTGAGTTTA CTTCCTATAC TTCTACGAAA
219841 ATGATAATGG TAATAAGGAG AAACAGTTCT GTGTTACCTA TTACATTCTG GCTTTACATA
219901 TAACCATTAA TTTAACCTTC ACAATGACCT TGAGAGAGGC ATTGTTATAA TTCCCTTTTC
219961 ACAGATGTGG AAACAGGACA CTTAGAGGTT AGATAAAGTT CCCCAGGTTG CACAATACTA
220021 AGTGATAGAG CTGCTGCAGC ATCCATATT TTAACCACTA TGCTATACTA CCACACCAGC
220081 TGATTCCAAA GCTTCTTTTA GAAATAATAT TGCTGGGCA GGCATGGTGG CTCATGCCCTG
220141 TAATTCCAGC ACTTGGGAG GCCGAGGAG GCAGATCATG AGGTCAGGAA TGCAAGACCA
220201 GCCTGACCAA TATGGTTTAC TAAATATCAT CTAATAAAA TACAAAAAT AGCCAGGTGT
220261 GGTGGCAGGC ACCTGTAATC CCAGCTATTC AGGAGGCTGA GACAGGAGAA TCGTTGAAC

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220321 CCAGGAGGTG GAGGTTGCAT TGAGCCAAGA TCATGCCACT GCACTCCAGC CTGGGCGACA
 220381 GAGTAAGACT CCGTTTCAAA AACAAAAAAC CCAAGAAATT AATATTGCTT TTATCTGGAG
 220441 CCCAGAGTGA TGCAGCTTCT GGCCCTCTTA TCTGAGACAG TGTTCTTTTA GTGTGAAAAA
 220501 GGATGCTAAT TTTCCCCCAA ACAACCCACA GTATCATGGG GGTAAGTTAA TGGCTGGTCT
 220561 GTGTAACTGA CAAATTTTGG TGCTAACGTA TCTCTATAAC TACTCTGTAT AAACCTTCCTT
 220621 CCTTCAGAGT GGAGTTCTGT CCTCCCTGCC TTTTATTGCT GCTGCAAGCT GTACAATTTT
 220681 AGGAGGTCAG CTGGCAGATT TCCTTTGTCT CAGGAATCTT CTCAGATTGA TCACTGTGCG
 220741 AAAGCTCTTT TCATCTCTTG GTAAGGATAA GCGTGTGGGC CCATTTAACC AATCCCTTTT
 220801 CTGCACATGG TCTCAGAGGG TTCCCTGACA GCATGTCCTC ATTGCCCAGG GCTCCTCCTT
 220861 CCATCAATAT GTGCTGTGGC CCTGCCCTTT GTGGCCTCCA GTTACGTGAT AACCAATTAT
 220921 TTGCTGATAC TTATTCCTGG GACCAGTAAC CTATGTGACT CAGGGTTTAT CATCAACACC
 220981 TTAGATATCG CCCCAGGTA AGAGCTCTAC CTGTTTTTTC CCCTCCTCCA GACCCCTCCA
 221041 GAGGTGTTAG ACCTCAGTGG TCGCCGTGAA ACTCTTTAAT GTTACTGACA TTGCACATAA
 221101 GGCAGAATGA CAAATAACTA CAAATATCTG TCTGTGGCCA TTTTLAGAAC AACAAATGTG
 221161 GCATTTTTAG AACAACAATT TCCAATCTTG GCCAGTAATC ATTTTGACAA AAACCTTCCC
 221221 AAGCTTCCCT AACAGAGATT GAACTGTGTA TGCTGGGAAA AGGCCACAC ACAGGTGATT
 221281 TGGAAAAGTT TCCATGGTGT TGTTCAATAT AGCTACCACA TATATATATA TATATATATA
 221341 TATATATATA TATATATATA TATATATATA TACAGTCACA ATAAGCCAGC TCCTGTGCCA
 221401 AGACTTGCCA TATATCAACA CATCTAATCC TCACAGTTAT ATTAGGTAGG CCTATTGTT
 221461 ATCCCATTT TATAAGGGAG AAGGCTGAGG CACAAGGAGG TTAAATGGTG TGACTATGGT
 221521 CACATAAAGG CAGAGCCAGG ATTTGGACTG GGGGAGTCTG GCTTTGGAGT CTGTGCTCTG
 221581 CCCGTTGCAC AAAGTGGCTT CTACACTGAG CAGCCAGGGT AAAGAAACGT GGTTCACAGA
 221641 GAGACTGCAT TGCTCCCTGG TTATTGACTT GGTAGATTGG TAATTTTCAGG TTTGGCAAAT
 221701 AGACATTGCC CTGAATGTCT TTAGGTGAAT GAAAACTGC ATTAAGCAA ATGACTTTGC
 221761 CATTAGAGCT GAATTGCATT AAAGTTGAGT TGCTGCAGAA GCTGTAGGTG GCTTTCTATA
 221821 TAAAATCATT TATAAATCA TCTTCCATA GATATGCAAG TTTCTCATG GGAATCTCAA
 221881 GGGGATTGG GCTCATCGCA GGAATCATCT CTTCCACTGC CACTGGATT CACTCATGCT
 221941 AGGTTGGGTC AGTTTATTGA ACATCTTCAA GTGGCAGGTA TTGTTTTAGG TGTTGGAGAT
 222001 ACACACGGTG CTCTAAAGAT CTGGATGGCA ACACAATTAC TCTATTTACA TGAGCCTCTA
 222061 AATCAGACTC TGGTAGGTCA GATTTCCAG AGGAAGAAAA ATATAAGCTT ATTTTCTCAA
 222121 GATGAATAGA TGTTAGATTG ATTAATATGA GCTGTCCGG TGCAGAAGAC AGCAGTATG
 222181 ACTTCCTAGA GGTACATGAG CATGAAACAG TTCTTAGTTA TGACCAGAAT GAAAGACACA
 222241 TGTCAGGAA TAGCAAGAGA CGAAGACAGA GGGGCAAAAG AAGATCATGA AGAATATGTT
 222301 CAGACTAATC CAATTTTAA AAAATCACAA AAGGGAAACA AAGTGTCTTA GGCCAGTTTA
 222361 AAGATAATTT AATGTCTGGA AACAGATCGG CTGTGAGACA TTGCAAGGAG GCTTGCTCGG
 222421 TGTTTGGAAA TGCAGGCTCA TGAGGAAGAT GAAAAGACAG ACCCAGGCAG GGATGGAAGG
 222481 ACTGACTAGA ACCAATTAC AAAGAGAAGT TTTGTTTTTA CTACATTTCT ATGTGATCAA
 222541 GTTCCAGGT TAATATTTGA CTAACTGCT AGGAATCCAC TGTGACTATA ATGCTGGAAA
 222601 TGACTTAGTA GGGCTTTCTG AGGAGGGTCA CACAGAAGAC CAAAGAGAAC TCATGTTGAA
 222661 TTGAGATGGG TTATAGTGAT AGTTGTCAAC AGCCAATACA GAAACAAAA AAAACAAAC
 222721 AAACAGCAAC AACAAACA AAAAAAAA AAAACAGAGA AGACACAAAC ACAATGCCAC
 222781 AATGCCATTT TAGGCATAAT TTAAATGAG TAATATTATA TGTTGAAATC CAAATTTTCA
 222841 GAAAAACATT AGTGTATTTT ATTTTGTGTT AAAGAAATAA CCATCTCAAC TCAGAACCCC
 222901 ATGTGCATTT TGGCCATTTT GTTTCATAA GTTTCATAAA CTTTCTTAAG TAACTACTGC
 222961 ACATTGTTCC TTATATTCCT TGTGATCAAC ATTGCAATAC ACAACTGGGA GGGCTACTAG
 223021 AACTGGTGTGA GAAGGAACCT GTGAGATTGA TCATTTTCTC TGTTTTTTAC ATCTAGATT
 223081 TTGAGTCTGG TTGGAGGAAT GTCTTTTCC TGTCTGCTGC AGTCAACATG TTTGGCCTGG
 223141 TCTTTTACCT CACGTTTGGG CAAGCAGAAC TTCAAGACTG GGCCAAAGAG AGGACCCTTA
 223201 CCCGCCTCTG AGGACATAA GTTACAACT TAAATGTGGT ACTGAGCATG AACTTTTTAA
 223261 ACATTTTTTA CTTCTCTCCA TATTCCTGAC CATAGACTCA GCAGTTCTTA ACTCTGGCTG
 223321 TGTGTTAGTC TTCCCTGGGG AGCCTTTATA AGACACTGAT ACTTGGGACC CACTCCAGAG
 223381 ATTCTGAATG AATTGGTCTG GGGTGGAAAC CAGATACTAC TAATTTTTAG ATACTCCTTA
 223441 GAGGTTTCTA GCATGCGCCC GGGGTTGACA ACAGCTGAC AAACCTGAAA AGTCAATTCA
 223501 TGTGGCCTTT GAATTTTCCT CATTGGAAAG TACTAAATAA ATAAAAATTC ATGTGAAAT

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223561 GATCACTGAT AAATATCTTC ATGGTGGGGC AGGTTATTGG ATGCAGAGAA GATCTGCTCG
223621 GAATTGTAGC CATATGTTAC AGATCTCAGC ACCGATCAGA ACTGTAAAGC TATAATCCCC
223681 AGAATTAAAG TTTTATTAT TTTTATACA TTGTAAAACA TAGACGTTTA TTTATGTGAT
223741 TAAATTCTAT TAAAATTAC ATGCTAAAAT AAAATAGACC ATTTTCAAAT TATTTAGATC
223801 CAGATATTTT CATCAGATTA AACAGATATT TATTTATCCT AGCCCAATTG CAAGAGATTA
223861 ATGATGAGAA AATGACCAAT ACAAGATTAA ATAAATGAGG TTAACCTAGA AATCAAGGAC
223921 AGAGAAGATA GAACTGGAAA GCTTGTATTG TGAGAAGAAT GAATGTGAAG GAAGGCAATG
223981 TAGACACTTC CAGAAGGGAT AGCAATATAG TTTAGACCAT ATAATGAAA TTGGAGAGAG
224041 ATGACAGAGA CACTTCAAG TGAATGACA ATTTATATGG GGGAGAAAAA TATTGAAGAC
224101 ATAACAAGAT GAGAAAAGGC ATAGAAATGT ATCACAATACA AGGCATAGAA GTGTATCACA
224161 TACAAGAGAA GTTCTTTTGG AGCGTAGAAA AAGATAATTT AACCTTCTTC ATATTTTCTT
224221 TACTTTCCCA AGATACTCAG ATAGGCAGCG TCAACTCTAA CAGGAATTAA TTTGGCTCCT
224281 AACACTTAAG ACATATCCTT TAGTTTGTCT CCTCACACAG AACTGATTCT GGTTTGGCCA
224341 CAACATGTCT AGAGAAGAAG TTCCCACCAT ATTTTAAATC CTATTAAGAA ACTGCTTGGA
224401 CAAGAACCCTT GGGCTAATTC AGCAGATGAA GAGAATCTCC TAATGCAAAT CAATGGGTAT
224461 TTTTGAGCAA GTTTTTCAGA AAAACAGAGT GTCAGGCCCT GAGGGTGGTA CTAAGATGAG
224521 AACATTGATT TTGCCTTCAT GATATTGACA ACACAAAGAG GAAAGGGGGT TTGCAGAAAA
224581 CTAAAAGAAG AAGTAGAAGA AAAAAGAAAG ACATAGTATA ATAGGTAGTC AAATTATGTA
224641 CAGAAAAAAG AGGAAAAAAG ACCAAAAAAG GGTGGGGGAC AGACAACCCA ACTAAAAAAT
224701 GGGCCAATGA CTTGAAACAG GACTTCATAA AAGAGAAAT GTAAGTGGCT CCTTAACATA
224761 TAAAAAGATG TTCAACTTCA TTAGTCATTA CAGAAATGAA AATCAAACT ACAATGAAAT
224821 ACCACTATAA AATTAACATA TGGATAAAT GAAAGGAGAT GGAAAACAAA ATGTTGCCAG
224881 ACATGTGGAG CAACTGGAAC TTTCATACGT TACGAATGTG AACTTTGGAA AGCTGCTCGG
224941 CAATATCTCC TAAAGCTAAA TGTACAATTC CAGTGACTCA GACATTTTAC TTAGAAATGC
225001 ACATATACAT CCATAAAACA TGTACAACAA TGTTCATAGG AGCACTATCT GTAATAGCCT
225061 GAACAGGAAG TTGTCTGTGA AAAAAAGAAAT GAGTAAATAA ACCACGGTCT ATTTGTATAG
225121 CAATGAGAAT TAACAGACCC CAATATATAA TAGATGAATG GGTCTCATAA GCACAAATATT
225181 GATTAAAGGA AGACAAAACG CACATTCTTT TAAAGGTTTA TAAAATACTT TTTAAAAACA
225241 GCTACAACCA ATCCGTCCTG TTAATAATCA GTGAGCGATT TCCCTTGTGC AGGGATGGGG
225301 GTTGTGGCTG GATGGATGGT ACTTAAGAAG TGCTCCTGGG GTACTAGAAA TATTTTATT
225361 CTTGACTTGG ATGTGTGTTT ACTTTGTGAA TATTGTACAT TTATGATTG TGCACGTTTA
225421 TGAATGTAGA AAATAAAACA GAAAGCAAAT TCAAAGTATC ATCCTTTTGA GAGCTTCTGC
225481 TCTGACTTCG TTTTGACCAA TGGAGCAGTT GGGAAAGGGT CTTGGTCTCT CGGTCTTTTG
225541 CTTTTTTTTT TTTTTTTTTT TTTTAGACAG AGTCTCACTC TGTCGCCCCG GCTGGAGTGC
225601 AGTGGCTCGA TCTTAGCTCA CTGAAAGCTT TGCCCTCCCG GTTCATGCCA TTCTCTGCC
225661 TCAGCCTCCC CAGTAGCTGG GACTACAGGC ACCTGCCACC ATGCCCGGCT AATTTTTTGT
225721 ATTTTTTAGT AGAGACGGGG TTTCACCATG TTAGCCAGGA TGGTCTCGAT CTCCTGACCT
225781 CGTGATCCGC CCACCTGAGC CTCCCAAAGT GCTGGGATTA CAGGTGTGAG CCACCGCGCC
225841 CGGCCCTGG TCCTCTGCTT TCATGTTCTT CTTGGTCTCG TTCCTCTCTC TCTTTTGTG
225901 GAACTTCCAG TATCAGAGCA GGAAGGAAGG CAATGGGTCA ATCGATGCTG TCAGCTTTTG
225961 GATCAAACTG CAAGTTCTCA AACAGCAAAA TTAATGAGCT CAGGCTTTGA AGAAACCATG
226021 ACCCTGAAAG CATCAGTTGC TTCCAATTGC ATCAGTTGCC ACGGGTGATA AGAACAATGA
226081 TGACTCAGAA TGCCTAGGTT TTCCCAGCAG CTCTCTGAG GTTTTCCAG CAGCTTCTCT
226141 GATTGATTCC TGACAGATGA CTTCCGGTGTG TCAGACTTTC AGGGTATCTT TCCTTATGTG
226201 ATGGTTTGTAG GAAGAGTTAC CATTACATT CCTAATGGCT TCAGAATAGA TGCAATTGTG
226261 AACTGATAGG AAACATTTCT AATTCATCTC CCTCCCCAT CCTTAAAGGA TTGTTTCTAA
226321 CAATAGTCAT GAAAATTAAT TCACTTTTCT CAAATAGTTT ATTGTCTATC ACCTAATGAT
226381 GAGATGACTT ACTTTTTCTC CTTGACTGTT AAATATTATG AATTATATTA ATGTATTTCT
226441 TAATGTTGAG CTTTCCCTTG AATATCTTT TGATGTACGA CAGAATTTGA TTCATAATA
226501 GTTTATTTAG GACTTTGGCT GATGTACTGA TATATGAGAT TGGCTCTGTA TGCATACATG
226561 TGTTTTGTGT ATCTTTTTTG TGTCTGGATA TGGAGCTTAT GCTGATTICA AAAACAAGAA
226621 AGGAGAACTT TCCTTTTTCC CCATTACTCT GAAAAAGATT GACTAGAATG GAATTTTTAT
226681 AATTGCTGTT GTTATTTGAA AGCTTGAAAG CATTGGTTTG TAAAAATCAT GCAGGCTGAA
226741 AGCCATTTTG AGGAGACTTT GATAACTTTC TCAATTCCT TCAGTTACTG GTCTTTTAAG

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226801 GGGTTTTATA TTTTCTTTG ATCAATTTTG ACCATTTATG TTATCTTGGA GGATCATCTA
226861 TTTTACACAC TATTTAAAGT ATATTTGCAA AAATTCAACT GTTTTATCAG GCTATCTTTT
226921 TAATAATATA TTCATTTTAT CTATATCTGA GGTTTTAGCT TCTTTGTA CTGACCCAA
226981 TTGCATGTGT GCTTTCTTTC TCCTTCATTA GACTACTTAG TCATTTACTA ATTTTAAAGAA
227041 TAGCTTGTCT TTTATTTATT TACTTATTTA TTTTGTAGAC GGAGTCTCAC TCTGTCACCC
227101 AGGCTGGAGT GCAGTGGCGC GATCTCGGCT CACTGCAACC TCCGCCTCCC GGGTTCAAGT
227161 GATTCTCCTG CCTCAGACTC CCGAGTAGCT GGGATTACAG TCATGCACCA CCATGCTCTGG
227221 CTAATTTCTG TATTTTAAAT AGAGATGGGG TTTTGCCATG TTGGCCAAGC TGGTCTCAAA
227281 CTCCTGACCT TAGATGATCT ACCCACCTTG GCCTCCCAAA GTGCTGGGAT TACAGGCATG
227341 AGCCACTGCG CCCAGCCCTG CTTGTCTTTT TATTTTATAT TTGATTAGCT TTATCTTTTA
227401 TCAAGCTTAT GTCCTATTTT CCTTTGCTTT ACTTCATATA AATTTTGT TTGATAGTTT
227461 ATTTATTTT CATTAAATTA TGAAACAGGT TAAAGCTTAG AGGAAAATTG CTCCTCTAAG
227521 TCCACTTTTG TGGGCAGATT ACATTTTGCT GTGTTGTGCT CCCAAATTCA TTGTTCTTTT
227581 AATGCTTTAT TTCTCAAGTT AATAACCTAT ATAGTAAAAA AGTGGCTGTT GACTCTCAGC
227641 TTTTCTTTT TTTTCTTTT TTTTCTTTT GATACAGGGA TCTTGCTGTG TTGCTCAGGC
227701 TGGTCTGAAA CTCCTGGCTT CAAGGGATCC TCCTGCCTTG GTCTCACAAA ATGCTGGGAT
227761 GACAGACATG AGACACCATG CCCAGCCATG TCTCTCTCT TATATATAAT AAGAAAACAG
227821 ACACACTGAG GCATCCTATC ATCTCACTCT TGGTTTCACT ACTGTTCTCT GGAAGTTTGT
227881 CTCTGACCTT TTGCAGTTAA TGTATTAATT TTGCATTGAG TAGTTTCCAT AGAAGAATTA
227941 TAGCATTGTC ATTCTGTTGG GTATTATACT TTTCACTGTT ATTTGAACAT AATTTGAGGG
228001 CTGAAACCAA GATGAGGCAA GTGAGGTGCC CAGGAAGCAA TATTTAAGGA GGCATCTTTT
228061 CTTAGGCTCA TGCAAGAACA GAATTGGCAC ATGAGAGTGA GTGCCTCCTT AATTTTGAGT
228121 GCTGGACACT TCTTGCTCAC TTAGCATACC CCTGGACAAT GAAGTGT TTTGTTTGT
228181 TTTTCATGTC CATCCTTTAT CTTCTCTCAT CTCAAAACAT TTCAATGGAG TATTTTCTTG
228241 GAGCAGTACT TGGATGAGCC TCTGAGTCCC ACAGTAGCTG AGAATTTATT TCATAGTACT
228301 CTTTATGATC ACTGTGGAGC CTTAAACAT TGAATATTA ACTTAGCTGG GAACAGAAAT
228361 TTTGTTCCAC AATTTGTCTT ATTCAGAACA GTATTGACTT CCTGCTAGT TCTTCTGATG
228421 TCCAATATGA GGAAGTCTAG TTAGCCAGCT ACTTTTGTGA GGAGAGCTAT GTTTAGCTA
228481 GGTGCTATAG GATTCTCTT ATCCTGGAAT TCCTTCACCA AGATGTGCCA AGGTGTTAAT
228541 CATTTTCTCT TGCTTTTGG CTGGTGGTCT TAGAGTTTCC TTCGATTTTG TTTTATTTAG
228601 TGATTGTCT CAATTTGTTT TCTTTACTAA GAATCTCTCT TCTATTTATC TGTATGGTAA
228661 AACCTTGTG CCCATCTTC TGGTTTCTGC TGACTTTCAT TTTTGGACCT TTTACTTTGC
228721 TTTCTCCATG GACTTTTGG TAGTGGAGGC AGGCAACAC TTTCCAAAGT CTTTCTCAAT
228781 TTCCATCAAT TTCAACTTAT TTCTTAAAT TGCCTCAGAA TGTGCCTATG TCCACAATAT
228841 CCCTCCTTCC ACTTTAGAAA GGAAAGGCAT CCACACTTTA TTTAGGTGCA ATGCCTGAAG
228901 TGTAACACT TTCTGGTTGT CAACAAAGGA GTACTTCCAA ATATTGGTTT GGGGATAACC
228961 TGCTAATGAT TAACACATTC ACCTTGCTC TTGGTTTGCC TGCTCCTCT TCTTTTATCT
229021 GCTGTGTGTA TTTTFTTAA TCACTGAGAA TATGCACAGT ATTGTATGTT TTATTATAAG
229081 AGAGGACTGG CCAGAGTGGG AATGTCTGA ATTCAGAATA ACTGAAGCAG TACAGGATAG
229141 GAACTCATT TTTCAAATGA AGCTGGCATA TTTCCCAGA GCACCAAATT TCAATATATA
229201 TTTAAAAAAC TTGATATGAA TGATACAATA AAGTGGTTAG AACTTTTATT AAAATAAACT
229261 TATGTCATGA AATACTTATT CTAATTATAG TCACTCTTCA TCTTATTTCA TCTTATAACA
229321 TGTTTAATGT TTTCTTTTAT TTACAAAACA ATTTATTTT TGATGAAAAG TTTTAGAAAT
229381 CAAGTTAAAA ATATTCAAAG GAATGCCTAA AGTTTTCAA ATTCTTTTAC ATGTTGTACA
229441 ATCAAAAGAG TCTGAAGACC ATTTAGCTAT CCAAATTGTT TATTTTAAAG CAGTATCCCT
229501 TCTAATATTT ACTATTTATA ATCCTTAAAA ATTTGCCTTA GCACAGGAGA ATGCTTTGAA
229561 CCCAGGAGAC GGAGGTTGCA GTGAGCCAAC ACAGTGCCAC TGCCCTCCAG CCTCGGCGAC
229621 AGAGTGAGAC TCTGTCTCAA AAAAAAATAA AAAAAAATAA AAAAAAGGCC AAAAACAAAT
229681 AAACAAACAA AAAAATCCGC CTTAACATTA TTTGTTTATT AAAAATTTT TTTAATACTA
229741 CTAGTTTCCC TTTCTCTCA GCCCATTGTC ATATTTTGAT TTTTATCACT TGCTTTGTAG
229801 GACATATGAG GTTTTGT TTTTCTTTT TTGGAGATGC AGTCTCCCTC TGTTGCCCGT
229861 GCTGGAGTGC AATGGCGCAA TCTTGGCTCA CTGCAACCTC TGCCTCCTGG GTTCAAGCAA
229921 TTCTCTGCC TCAGCCTTCC AAGTAGCTGG GATTACAGGC ACCCACTACC ACGCCTGGCT
229981 AATTTTGTGA TTTCTGGTAG AGACGGGGT TCACCATGTT GGCCAGGCTG GTCTCGAACT

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230041 CCTGACCTCA AGTGATCCAC AATCCTTGGC CTCCCAAAGT GCTATGATTA CAAGCATGAG
230101 CCACCTGCCC AGCCAGAATA TATGTTTCATT TTGAGTCCTT TAACAAAGTC ATAAGAATTT
230161 TAGGAATTCA GTTACTTTCT TGAGAAAATC TCTGAAAAGA TGCCAATAAT TTGTAGCCAA
230221 TTATATTGAT TTCTCTTTT CATATTGAGA ATTGTTTTTT AAAAAGTTTG TATGTGTGAA
230281 GATTTTTGCA CTGTAGTTAA AGAAACCACC TGTGTGTTGG TTAAGCCATA AGTACATGTA
230341 TTCAAATAAA TTGAGGTGGG GTTACTCTGA GAATCAAAGG AAAACCTGAA GAAACAGGCA
230401 GCCTCAAAAG GTCTTAGCTG TAGCAACTTG CTCCATTGTT GAAATAAATA GGCTTGAACT
230461 TGTATTTTCC CTCTACTCAA CATTTAAGGT CTCAGAAGAT AATATAATTG GTGAAATTTA
230521 AGTAAAGTGC TCACTCTTTT GCTTTAACAA ACCCTAGAGA GCTGGTAGGC AGAGCCTCAA
230581 CAGACCGTTT TAGCTTCCAA AGGGAGTTCA GGACACCATG ATTCACGACC ACAATACATC
230641 ACACATAATT GAGAAAAGAT AGTTCCACCA AATAAAGTTG AAATGCTGAC AAGAAGGGGT
230701 AAGAAATCTT GGAAATAGGT TTATATAAAA TTTATTTTTT CCTTTTTTAT TGTATGGAA
230761 TAGGACCAGT TCTACTTAAG CCACCCATTT GCCAAAATAA AGTGAGAATC GTTCTTTTGT
230821 GGGACTCCTC TTTGTAGCTC CAAGTGCCAC TAACAATTCT TAGGACCTGA GCTATAAGCC
230881 AGGTGATTTT AGTTAATATG ATCAATTATT TCATTTAAAT GGCTCTAATG TGCAGAGGGA
230941 ACGGAGCCCA TCAGCATTCC CTGCAGGGA CTGCAGTGGC TTTTATCAAC TTGAACAGCT
231001 AGCTTTCAAC TGTTTTGAAA TCACTTTTCT GGTGGTTCATG TAGTTGCTTT TTTGAAATCA
231061 GAAGATGATT CTGCCTCTTT TAATATGTGA CTCCTCAGAT TCAGAAAGTG CTCGCTAGTC
231121 TTAAGAGTGA ATTACCCTCA GTGGTCCAGC GCTTATGAAC CCACATCTAA CCTATACCCC
231181 TGGGGGAACT ATCAGAGAAA TTGGTGCCAT GGACATAAGA GGAAGGCACA GTGAAGCAGA
231241 GAGCCCCGCA TGATGAAAT CAGTGGACAG CATCATTATT TACAACCTTG TAATCACCCA
231301 GGAGCATGAA AATCCAGGCC AATCTGGCAC CATGAGCTCT AATTTTTGTT GGAGTCTTGT
231361 GAACCGATTG TGATGAATGA CTGTTTAGCC ATTTTAGAGT GTGGCATACG TGGCTGCTGG
231421 CATAAGAGG TTGGATGTAA ACGGGCCTTT GCCCTCTCTT ATGAACATAG ACAGGAACTA
231481 AACTGTGTCA CATAGGTTCC AAATGGTGGC CTGAATACTA TTTACAATA AGGTACAATG
231541 AAATTGAGTA AGTCTTTTCC TCTTTTGCAG ATACCATCAT TATTCATATA TTTCTTCAAA
231601 GTTAACTATT TGTATTTGGT AATTTTAAAT AGAAATGTAA TAATGCTTTC TCAAGTTTAT
231661 TCTTTAGTCT TAAGGTTGAT GCTCTCCATG TCCTTCCAAA AAAAGGTATG TTGCTTTTAT
231721 TATATCCTCG CCTTCAGATG GGATTATTCC ATTTTGTTCT TTGTTAATAT ATACTTTGAG
231781 CCACTTTTTT TGTGGCTCTG GGTGAGATGC TATAGGTACA ATGACAAGTG ATACGTGTGT
231841 GTGCCCTGTC ACAAAGTGG ATAGCCTAAG TGGTGACTTT TACCTCCACT CCAAATATAT
231901 GTATCACACA CCAGCCGTAT GCCAGGCACC ACTCTAGGTG CTAGGGATAC AGCAGTAAAC
231961 AGACAAATGC AACCCTGCC CATGTGAAAG AGAATAAGAC AATAAATAAG TAAAGTGCAT
232021 GTTATATGGA GGTGGCAAT GCTAAAAGA AAAATTAAGC AGGCAAGAGG ACTCATTGAA
232081 AAGATGACAT TTGGGTAAAA GCCCATGTAT ATATGTTCTA TTGGTTTTAT TTCTCTGGAG
232141 AGCCCTGACT AATACACAAT GACTTTGAGA AGTTACTGGC TTTTGATTTA TCACACTATT
232201 CGGAGTGCTG AGAGCCTTCT TAGTGTGTAT TCAGTGTTTT AAGAGAGCTT GTGGATGAAT
232261 AATAAATAGG ACAAATTTA TCCAACTTA AGCCTTGCTT TAGGTAAGG GGCTCCTCTT
232321 ACAAGGTAGA AGGTATTAT TTGACATTTA AATCCAATG AAGACTAATA AGACTAATTA
232381 ATTAAAAGTT TTTAAATCAC AACTGCGTGC AAAATAAATG GAAGTCCCAT GCTCGCCAAG
232441 TGTGCATGAG TGGTGTGCAT GGGAGACAGC ACGAAGCTAA TCCCACTCAT CTTGCAGGTT
232501 GCTCCATTTT TCTCCTAAAA TCAGTAAGAC AGAAGCTGGT CAGATTATCA AGAGCCCTAG
232561 TTAAACACAG CAGTAGCATT TGGAAAGGGT TGCTCTCATT AGGCAGTGCC TGACCACAAC
232621 AAGAGATGAA CAAGCCCTGT ATCTGAAGCC ATCATGCCTA GTTATGGTCC CCGACTGTTC
232681 ATGATGCCTG GAAGGGAGGC CCCCTGCACC CTAGAAAGCT GGGTGGGTTT TACTGTCTGC
232741 TTTACTGCTA AAAACCTCT TCTTTGGATC TGGACTTTAC CTCTATCTGA TTTTTTTTTC
232801 TAATATATGA TTTGGCACTG AGTCTGTAC TGCTGCTAAC TCAGCAGTTC TAGGGTCATT
232861 GCCCCATTGC CTCACAGAAA GAATTCATA GCTTCCAGCA TCCTCTCTCC TTCATTATAC
232921 TTTGATTTCA GCATTGCTAT TTTTCTCTT GGGTGTGCA GCTCTCTCTC TCCTTCCCAT
232981 GTCTTGTTGG TTTTCTGCTA ACTCTGCTT TTTTCTTTT TTTTTTTTGT AGACGGAGTC
233041 TCGTTCTGTC ACCCAGGCTG GAGTGCAGTG GCACAATCTC GGCTCACTGC AACCTCCGCC
233101 TCCCGGGTTC AAGCTATTCT CCTGCCTCAG CCTCCAAAGT AGCTGGGACT ACAGGCGCTC
233161 ACCACTATGC CCCACTAATT TTTGTATTTT TAGTATTGCT GTCATCAATC CACATGTCCA
233221 GAAGCACCTA GAAACTCTAA TTCTTTGTAG GTATCAAACC CTAGGACTCT TTCCTCTAAT

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233281 CACAATATAT AATCCCTGAT TCCCAAACAC GGTCTTTTCA TATACATTTT CCACTGTACA
233341 TACTTTCTGA CCTGGAAAGC TCTTACACAA ACACGCCCTC CCCTAGGAAG CCTTTATAAA
233401 TGTTCCCAGG AAGAATCAGT CACCCAACAG TGTCCTTGTC ACATCTTAGG TTCTACACCT
233461 TTATTTGTTT TATCTGAATG TAATCTCCCA GAGGGTGTTA TCATCTTTTT TTTTGAGATG
233521 GAGTCTTGCT TTGCTGCCCA GGCTGGAGTG CAGTGGCATG ATCTCGGCTC ACAGCAACCT
233581 CCACCTCCTG GGTTC AAGTG ATTCTCCTGC CTCAGCCTCC TGAGTAGCTG GGATTACAGA
233641 CGTGTGTAC CACACCTGGC TAAATTTTGT ATTTT TAGTA GAGACAGGGT TTCACCGTGT
233701 TGGCAAGGCT TTCCTCGAAC TCCCAAACCTC AGGTGATCCA CCCACCTCAG CCTCCCAAAG
233761 TGCTGGGATT ACAGGTGTGA GCCACCATGT CCAGCCCCAT CTTTTTCTTT TAGTTTAGTT
233821 CTTAACAAAT AGTCTGACAC AAAGTGGATA TAACAATATT TTGAATTATG AATAACTAAA
233881 TGAATATTTT CAGATTTTCT GGTGCTCTCA AAGTTTATG TTACAAAAGA AAAACAAGTC
233941 TAAAATACCT GCCTCAAGTT TTTATCTGTA CTATGATTTT AAACCAAATA AAAACAGGT
234001 GGGGTAAAA CTGAAACAGG AAATACATAT AACTGAAAAA TTTGGTATG TTAGTATGAT
234061 AATACTAGGT CATTTTCTCT GTTCCCCAA CTTCATTTT TATAGCAATA AAAAGAAACA
234121 AGTAAATGTA TGTTAATTTA ATTTAAAGA AGTAGTCTAC CATCTCTTCT GTTAAAAAGA
234181 AAAAAGTATT TTAATAAATT ATCTCTGGAA GGATACACAG GGAACATTGC TCTGGTTTCT
234241 TCCAAGAGAG AAATGAGGAA CTAGAGAGCA TGGCCAAGTG GGGTTTGTCT TTTGTTTTTG
234301 TTTGTCTATC TGTTAGCTTT TTATTATTTT CTTTTGTAGG TTTGAATTTT AAACCACATA
234361 AATCTGTTAC ATGCTCATAA TAATAAGTTT AAAATAAAAC TTTTGGCTGG GTGCAATGAC
234421 TTACACCTGT AATCCCAGCG CTTTGGGAAG CAGAGGTGGG AGGATACTTG AGGCCAGGAA
234481 TTTGAGATCA GCCTGGGCAA CATAGTGAGA CCCTGCCTCT GTAGAAATAA ACAAATAAATA
234541 GCTGGATATG GTGGTGCATG CTTGTACTCC TAGCTACTTG GGAGGTTGAG GCAGGAGGAT
234601 CCTTTGAGTC CAGGAGTTTG AGGCTGCAGT GAGCTATAAT CACCCACTGC ACTATAGCAT
234661 GGGCAATAAG GTGAGAACTT GTCTCAAAAA AAAAAGGGGG GGGGGAACA AATAAATAAA
234721 TATAACAAA ACTTTTGTCT CAAAATATGT AATATTTAGC ACTAAAGAAT TCTGAATTGT
234781 AGAGCTAAAA AGTACTTAAA AGTTAATAAC TATTGTCTCC TTTAAAGAA TTGTATCAA
234841 AGTATAATTT TTATCCAGAA AATCATCCAT ATCAGCAAGC TAAACTTTCT CAAAATGACA
234901 TATCCATGTA ATTAGCTCCC AGGTAATTAG CAGGCAGCCT CTACTCAGGT TGAGTATCC
234961 TAATCTAAAA ATTGGAAATT CAAAATGCTC CAAAATCTGC AACTTTTTGA ATGCTAACAT
235021 GATTCTCAA GGAGTGCTCA TGGAGTATTT CAGATTTTGG ATTTTGGAT TTGAGATACT
235081 CAGTATAATG CAAACATTCC AAATCTGAAA AAATCTGAAA TACTTCTGGT TCTAAGCATA
235141 AGGGATACTC AACGTGTGTT AGCTAATTAG ACCCTTCATG GTCTCTTCTA GACCTCAGCT
235201 TCTTCAAGGT AACCTCTATC CTCACCTCTA ATAGCATGAA CTTTTCTGTT TTAGAATAAT
235261 TTGGATTTTC AGGAAAGTTG CAAAGATAGT ACAAAGACAG TACAGGAGAG TTCCCATATA
235321 TCTTTACCT AGCTTTCCCC CATTTGTTAGG ATTTTACATT ATTATGATAC ATTTGTCAAA
235381 TATAAGCAAC TCACATTGAT ACATGAACT CTATTAACCA AACCCTAGAC TTTATGTGGA
235441 TTTCAACCT GTTCCACTA ATGTTTCTT TCTGTTCCAA GGTCCAATCT GGAATACCAC
235501 ACTGCATTTT CTTGTCTAT CTCCCTAGTC TTTTTTTGTC TGTGACAATG TCTCAGTCTT
235561 TTCTTGCTTT TCATGACCTT AACAGTCTG AAGATCATTT GCTTTTTTTT CATAATTACA
235621 CCGGAGTTAT AGATTTTTTG AAATAATACC ACAAGGGCAA AGGGCCCTTC TTGTCACATC
235681 ATTTTAGGGA GAACATGATA TCCACATGAC ATCACTGATA TTAACCTTCA TCATGTGGTT
235741 TAGGTAATGT TTCAGGTTTC TCTACTGCAA AGTGATTTT TCCCTTAAT TTAGCCCACC
235801 TGAACCTATC AATTTTGTCT TCTTCCATGA CTAATACTTT TGTTATTATA GCTAAACTT
235861 CATTTGGGCC AAATCTTAGA TCATGTAATG TTTCTTCTAT ATTTTATTCT AAAAGCTTGT
235921 AATGTTTGAT ACATTCTAAA AGATGTAATG TTTGATACAT TACATCTAGT CCTTTGATTT
235981 ATTTT TAGTT ACTTTTGTAT AAGGTGTGAG AGATGTCTCC AGTTTCACTT TATTAACACA
236041 TTGTGGTGTT CCAGTACTAT TTGTTGCTAA GACTATCTTT TTTCCATTGA TTACCTTTGC
236101 CTTAGTTGGC AATATTTTTG TTGTTTATT TCTAGACTGT TTATCTCATT CCACTGATTT
236161 GTGTCTATCT TTTTGACAAA ACTGTTGATT ACAGTAAGCT TTGAAATAGT TCATTTTTTG
236221 TGTCAACTTG ACTGAGTCAG GGGATAACCA GCTATCTGGT TAAACATTAT TTCTGGCTGT
236281 GTTTGTGAGC GTGTTTCTGG ATGAGATTAG CCTTTGAATA GGTGATCCTA GTAAAGTAAA
236341 CTGTCTTTCC CAGTGTGGAT GGCATTATGC CACCTGATAT TCAGGGTCTG AATAGAAGAA
236401 AAGGCAGAGG AAGGGGGAAT TTGGGCCTTT TTTCTGCCT CACTGCTTGA GCTGGGACAT
236461 CTCATCTGGT CTCCTGCTCT TGAAGTGGGA TTTACATCAT CAGTTCTCT GGTCTCAGG

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236521 CCTTCAGATT CAGACTGAAT CATACCACCA GCTTTCCTGG GTCTCCAGCT TGCAGATTAC
236581 AGATCATGGG ACTCCTCATC TTCCATAAAT GCATGAGCCA ATTCAGTCTA TGTCCCTTGAA
236641 AACTGCCCCA CTGCAGATTA AGGCTTTTTT CCACTAGGTG AAATAAAGAA GCTTGTTAGA
236701 CAGATTTCCC TTCATCCAGT GCCCTCTCCT CTTTAAGTTA CAACACATTG GCTACACCTA
236761 AGTGCAGGGG TGGGGATGAG GGTATAGTCC TCTGTTTGC TGAGAAGAGA ACTGTATTGG
236821 GAAAGCTCTA GAAGTGTTTG ATACATACAT AAACAAGGCA TGGTTTTTGC ACTTAATTTT
236881 ACATTACATT TTCCCAGAA AAAAAGGAAT GTATAGGCAT CACGTAACCTG TACTAGCTGG
236941 AGTCATTCTT CCTGATTATC AAAGGTAAAC AGTTATTAAT CCTATACCAA GATGTCAAGG
237001 AGAAGTACTT TTGGAACACA AGGAATTCTC TGGGAGTCCT TACTACTCTC AAGCCCAGTG
237061 AAAAAGTTAA TGAAAACTA TAGTACCTTC CTATAAGCTG GATGACTAAT TACCAGGCTC
237121 ATTTAGGAAT TTGCCTTACC AAGTAAACA TAAGGGCAGC TGAGGTGCTG ACTGAAGACA
237181 AATGGAGCAT AGAATAAGAG TAGTAAAGAA TGCCAAAAAT GCTGTCATGT ATCCATTGAC
237241 AAAAGGAGCT ATAAAGCCTT TAGGTATTTT CACACTTGCT CTGTTACGTA AATGTATGTG
237301 TGTGTGTGTG TGTGTGTGTG TGTGTG

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US97/17658

A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) : C07H 21/04; C12Q 1/68; C12N 15/63, 15/85; C12P 21/02

US CL : 536/23.5; 435/6, 70.1, 325, 320.1

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 536/23.5; 435/6, 70.1, 325, 320.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

APS, DIALOG'S BIOTECH cluster.

hemochromatosis, BTF1, BTF2, BTF3, BTF4, NTP-3, NTP-4, RoRet, butyrophilin, type 1 sodium transport

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A, P	RUDDY, D.A. et al. A 1.1-Mb transcript map of the hereditary hemochromatosis locus. Genome Research. May 1997, Vol. 7, No. 5, pages 441-456, see entire document.	1-20, 22-77
X	FISCHER, L. et al. Cloning of the 62-kilodalton component of basic transcription factor BTF2. Science. 04 September 1992, Vol. 257, pages 1392-1395, see entire document.	28-33, 71
X	MARGOTTIN, F. et al. Participation of the TATA factor in transcription of the yeast U6 gene by RNA polymerase C. Science. 25 January 1991, Vol. 251, pages 424-426, see entire document.	22-27, 70

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents.	* T	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
* A document defining the general state of the art which is not considered to be of particular relevance	* X	document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
* B earlier document published on or after the international filing date	* Y	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
* I document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	* A	document member of the same patent family
* L document referring to an oral disclosure, use, exhibition or other means		
* P document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

20 JANUARY 1998

Date of mailing of the international search report

12 FEB 1998

Name and mailing address of the ISA/US
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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US97/17658

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	ZHENG, X.M. et al. Sequencing and expression of complementary DNA for the general transcription factor BTF3. Nature. 05 April 1990, Vol. 344, pages 556-559, see entire document.	34-39, 72
X	PANTEGHINI, M. Electrophoretic fractionation of 5'-nucleotidase. Clinical Chemistry. February 1994, Vol. 40, No. 2, pages 190-196, see entire document.	52-57, 75
X ---- A	BURT, M. J. et al. A 4.5-megabase YAC Contig and physical map over the hemochromatosis gene region. Genomics. 15 April 1996, Vol. 33, No. 2, pages 153-158, see entire document.	1-6 ---- 7-20, 22-77
A	VERNET, C. et al. Evolutionary study of multigenic families mapping close to the human MHC Class I region. J. Mol. Evol. November 1993, Vol. 37, No. 6, pages 600-612, see abstract in particular.	1-20, 22-77

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US97/17658

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

Please See Extra Sheet.

1. ☒ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

☐

The additional search fees were accompanied by the applicant's protest.

☒

No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US97/17658

BOX II. OBSERVATIONS WHERE UNITY OF INVENTION WAS LACKING

This ISA found multiple inventions as follows:

This application contains the following inventions or groups of inventions which are not so linked as to form a single inventive concept under PCT Rule 13.1. In order for all inventions to be searched, the appropriate additional search fees must be paid.

Group I, claim(s) 1-20, drawn to polynucleotide sequences containing at least one polymorphic site, polypeptides encoded thereby, antibodies to said polypeptides and a method to determine the presence of the HFE gene mutation.

Group II, claim 21, drawn to the lymphoblastoid line atcc crl-12371.

Group III, claim(s) 22-27 and 70, drawn to BTP1 nucleic acids, gene products, vectors and antibodies.

Group IV, claim(s) 28-33 and 71, drawn to BTP2 nucleic acids, gene products, vectors and antibodies.

Group V, claim(s) 34-39 and 72, drawn to BTP3 nucleic acids, gene products, vectors and antibodies.

Group VI, claim(s) 40-45 and 73, drawn to BTP4 nucleic acids, gene products, vectors and antibodies.

Group VII, claim(s) 46-51 and 74, drawn to BTP5 nucleic acids, gene products, vectors and antibodies.

Group VIII, claim(s) 52-57 and 75, drawn to NPT3 nucleic acids, gene products, vectors and antibodies.

Group IX, claim(s) 58-63 and 76, drawn to NPT4 nucleic acids, gene products, vectors and antibodies.

Group X, claim(s) 64-69 and 77, drawn to RoRct nucleic acids, gene products, vectors and antibodies.

The inventions listed as Groups I-X do not relate to a single inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Groups I and III-X are drawn to physically different genes and their gene products and each therefore constitutes a separate invention. The lymphoblastoid cell line of Group II is not dependent upon the vectors of any of the Groups I and III-X and therefore constitutes a separate invention. Accordingly, the claims are not so linked by a special technical feature within the meaning of PCT Rule 13.2 so as to form a single inventive concept.